

TECHNICAL MANUAL

**ARMY AMMUNITION DATA SHEETS
SMALL CALIBER AMMUNITION
FSC 1305**

**HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 1981**

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HEADQUARTERS
 DEPARTMENT OF THE ARMY
 WASHINGTON, DC, 29 June 1987

ARMY AMMUNITION DATA SHEETS
 Small Caliber Ammunition (FCS 1305)

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or know of a way to improve the procedures, please let us know. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-MAS-MA, Dover, NJ 07801. A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

1-1. PURPOSE.

This manual is a reference handbook published as an aid in planning, training, familiarization and identification of small arms ammunition, ranging from 22 caliber through 30 millimeter and shotgun ammunition from .410 to 12 gauge. This is the Federal Supply Class 1305. Operating instructions are contained in the appropriate weapons manuals.

1-2. SCOPE.

a. For each item of materiel, there are illustrations and descriptions together with characteristics and related data. Included in the related data are weights, dimensions, performance data, packing, shipping and storage data, type classification, and logistics control codes (LCC).

b. Information concerning supply, operation, and maintenance of the items will be found in the publications referenced for those items. A complete listing of these publications is maintained in DA Pam 310 series indexes.

c. Within this manual, items with the following type-classifications are included:

- (1) Standard
- (2) Contingency (CON)
- (3) Limited Procurement (LP)
- (4) Reclassified obsolete (OBS) for regular Army use, but used by National Guard or Reserve Units.
- (5) Reclassified OBS for all Army use, but used by Marine Corps, Air Force or Navy.
- (6) Reclassified OBS, no users, but US stocks remain.

d. Items with the following type classification are not included: Reclassified OBS for all US use. No US stocks remain. (Foreign use or stock may remain.)

e. Numerical values, such as weights, dimensions, candlepower, etc., are nominal values, except when specified as maximum or minimum. Actual items may vary slightly from these values. Allowable limits can be obtained from the drawings indicated in the data sheets.

1-3. METRIC CONVERSION CHART.

For approximate conversions to/from metric measures see figure 1-1.

1-4. KEY TO ABBREVIATIONS AND SYMBOLS.

A	Army
AF	Air Force
band	bandolier
belt	linked ammo (cloth or metal)
bx	box
cal	caliber
cm	centimeter(s)
com	commercial
ctg	cartridge
ctn	carton
DODIC	Department of Defense Identification Code
DODAC	Department of Defense Ammunition Code
ft	foot/feet
fps	feet per second
g	gram(s)
gr	grain(s)
GSA	General Services Administration
H	Height
L	Length
m	meter(s)
MBR	Meet Ballistic Requirement
MC	Marine Corps
mm	millimeter(s)
mps	meters per second
mtl bx	metal box
mtl lnd bx	metal lined box
N	Navy
NATO	North Atlantic Treaty Organization
SCG	Storage Compatibility Group
psi	pounds per square inch
W	Width
wdn bx	wooden box
wrbd bx	wirebound box
yd	yard(s)

METRIC CONVERSION CHART

Approximate Conversions
to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
LENGTH				
in	inches	2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yards	0.9	meters	m
mi	miles	1.6	kilometers	km
AREA				
in ²	square inches	6.5	square centimeters	cm ²
ft ²	square feet	0.09	square meters	m ²
yd ²	square yards	0.8	square meters	m ²
mi ²	square miles	2.6	square kilometers	km ²
	acres	0.4	hectares	ha
WEIGHT				
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
VOLUME				
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gallons	3.8	liters	l
ft ³	cubic feet	0.03	cubic meters	m ³
yd ³	cubic yards	0.76	cubic meters	m ³

TEMPERATURE

Symbol	When You Know	Subtract	Multiply by	To Find	Symbol
-°F	Fahrenheit	32	.55	Celsius	-°C

Approximate Conversions
from Metric Measures

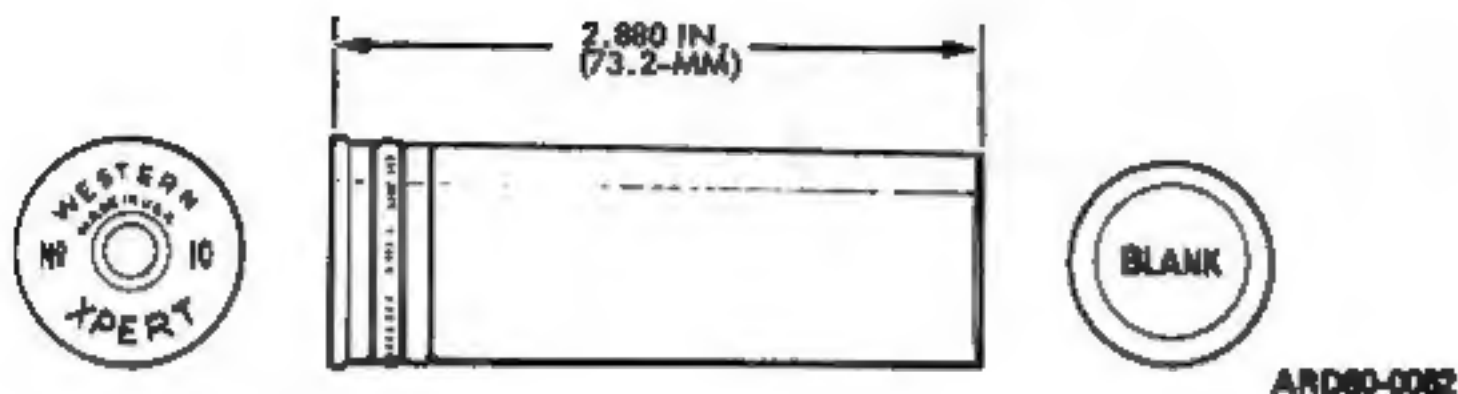
Symbol	When You Know	Multiply by	To Find	Symbol
LENGTH				
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
AREA				
cm ²	square centimeters	0.16	square inches	in ²
m ²	square meters	1.2	square yards	yd ²
km ²	square kilometers	0.4	square miles	mi ²
ha	hectares (10,000 m ²)	2.5	acres	
WEIGHT				
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
VOLUME				
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gallons	gal
m ³	cubic meters	35	cubic feet	ft ³
m ³	cubic meters	1.3	cubic yards	yd ³

TEMPERATURE

Symbol	When You Know	Multiply by	Add	To Find	Symbol
-°C	Celsius	1.8	32	Fahrenheit	-°F

AR 101380-A

CARTRIDGE, 10 GAGE, SHOTGUN, BLANK

Type Classification:

Std - OTCM 36524

Use:

This is an optional use item for reveille and retreat salutes; fired in the 3 inch gun, 75-mm gun, 75-mm howitzer, or 105-mm howitzer.

Description:

Cartridge is similar to standard shotgun cartridges but contains no lead shot. It has a paper cartridge case. The forward closing Disc is marked "BLANK".

Purpose:

The cartridge is designed to produce a noise when initiated. Used as a salute item in large caliber weapons. The blank is inserted either in a prepared cartridge case or breech block of the weapon being used.

Tabulated Data:

DODAC	1305-A010
Weight	290 grain
Length	2.880 inch
Tracer	NA
Primer	Percussion

Fuze NA

Explosive:

Type NA

Weight NA

Incendiary:

Type NA

Weight NA

Propellant:

Type Black powder

Weight 8 drams

Performance:

Chamber pressure NA

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.45

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS

AMMUNITION

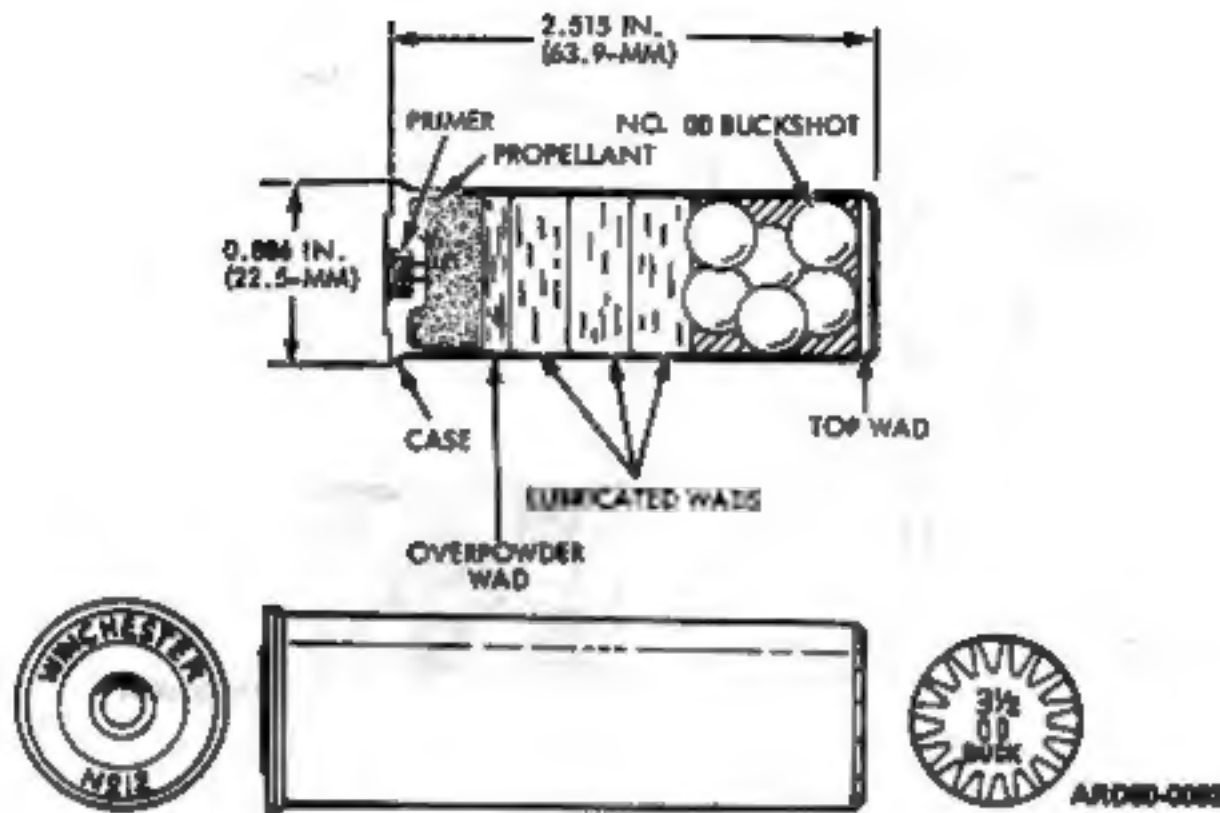
Drawing number 10524632

References:

TM 9-1300-206

SB 700-20

CARTRIDGE, 12 GAGE, SHOTGUN, No. M19



Type Classification:

Std - OTCM36841

Use:

For Military Issue 2-3/4 inch Chamber shotguns.

Description:

All brass cartridge case, loaded with smokeless powder and No. 00 Commercial Shot.

Purpose:

The cartridge is intended for guard and combat use.

Tabulated Data:

DODAC	1305-A011
Weight	930 grain
Length	2.515 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- 26 grain

Performance:

Chamber pressure ----- 11,000 psi

Velocity ----- 1125 fps,
3 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.45

Storage code ----- Class V

DOT shipping class ----- C

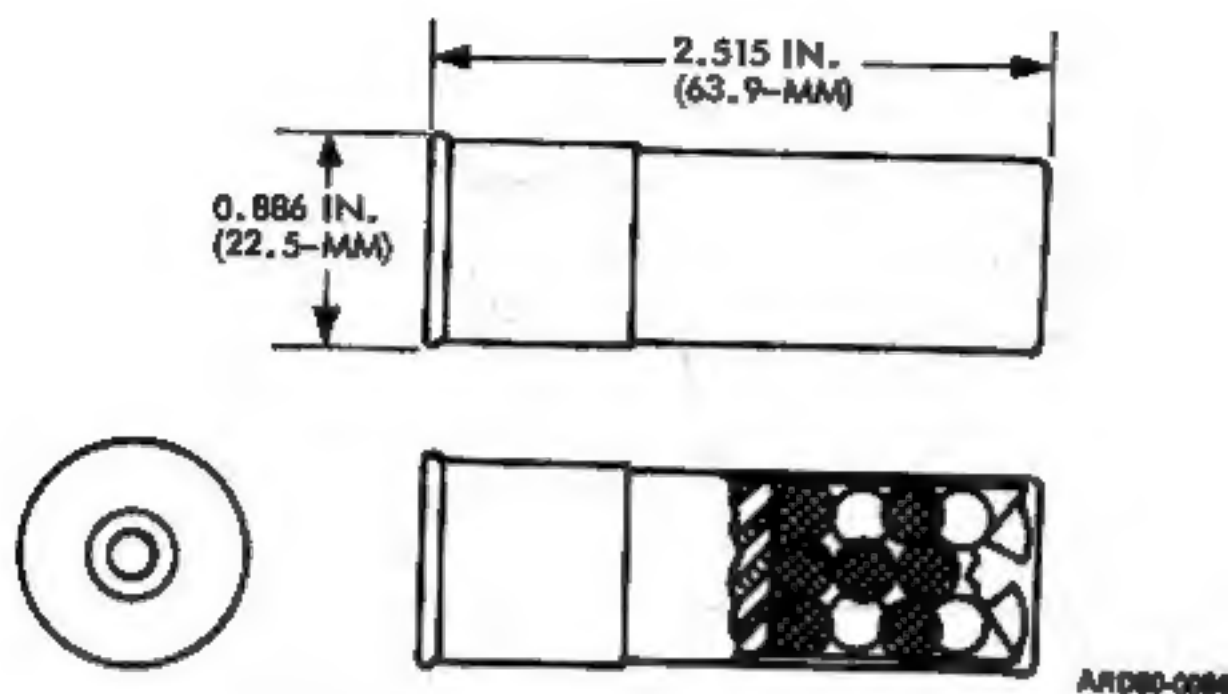
DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number ----- 7640981

References:

TM 9-1005-303-14
TM 9-1300-200
SB 700-20

CARTRIDGE, 12 GAGE, SHOTGUN, No. M257

Type Classification:

Terminated - MSR - 08752013

Use:

Military Issue Shotgun, 20 inch Full Choke Barrel.

Description:

Plastic ctg case; loaded with smokeless powder and No. 4 hard lead antimony pellets.

Purpose:

The cartridge is intended for guard duty and for riot control weapons.

Tabulated Data:

DODAC	1305-A011
Weight	748 grain
Length	2.515 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- MBR

Performance:

Chamber pressure ----- 11,000 psi

Velocity ----- 1335 fps,
3 ft from muzzleShipping and Storage Data:

Quantity-distance class/SCB ---- 1.4S

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS

AMMUNITION

Drawing number ----- 10642445

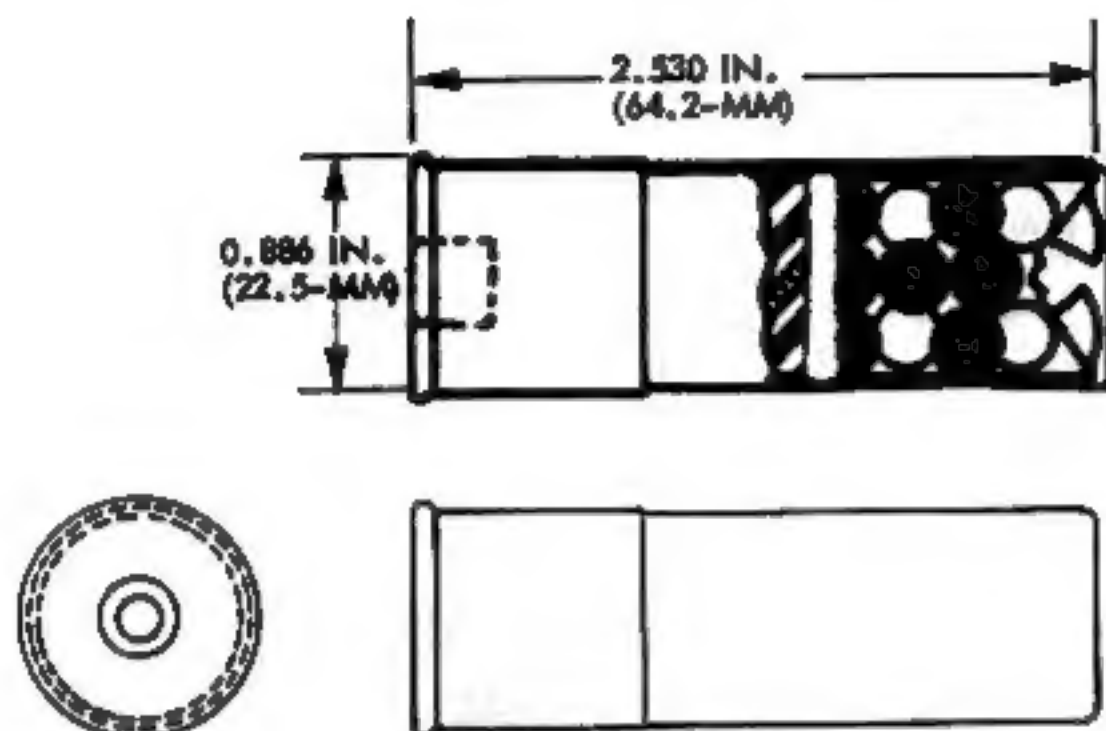
References:

TM 9-1005-303-14

TM 9-1300-206

SB 700-20

CARTRIDGE, 12 GAGE, SHOTGUN, No. M274



ARD80-0065

Type Classification:

OBS - MSR11756003

Use:

For Military Issue, Riot Type Shotgun, 20 inch Barrel Cylinder Bore.

Description:

May be paper or plastic cty case, loaded with smokeless powder and No. 4 hard chilled shot.

Purpose:

The cartridge is intended for use against small game and for riot control weapons.

Tabulated Data:

DODAC	1305-A011
Weight	740 grain
Length	2.530 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	NR

Performance:

Chamber pressure	11,000 psi
Velocity	1255 fps, 3 ft from muzzle

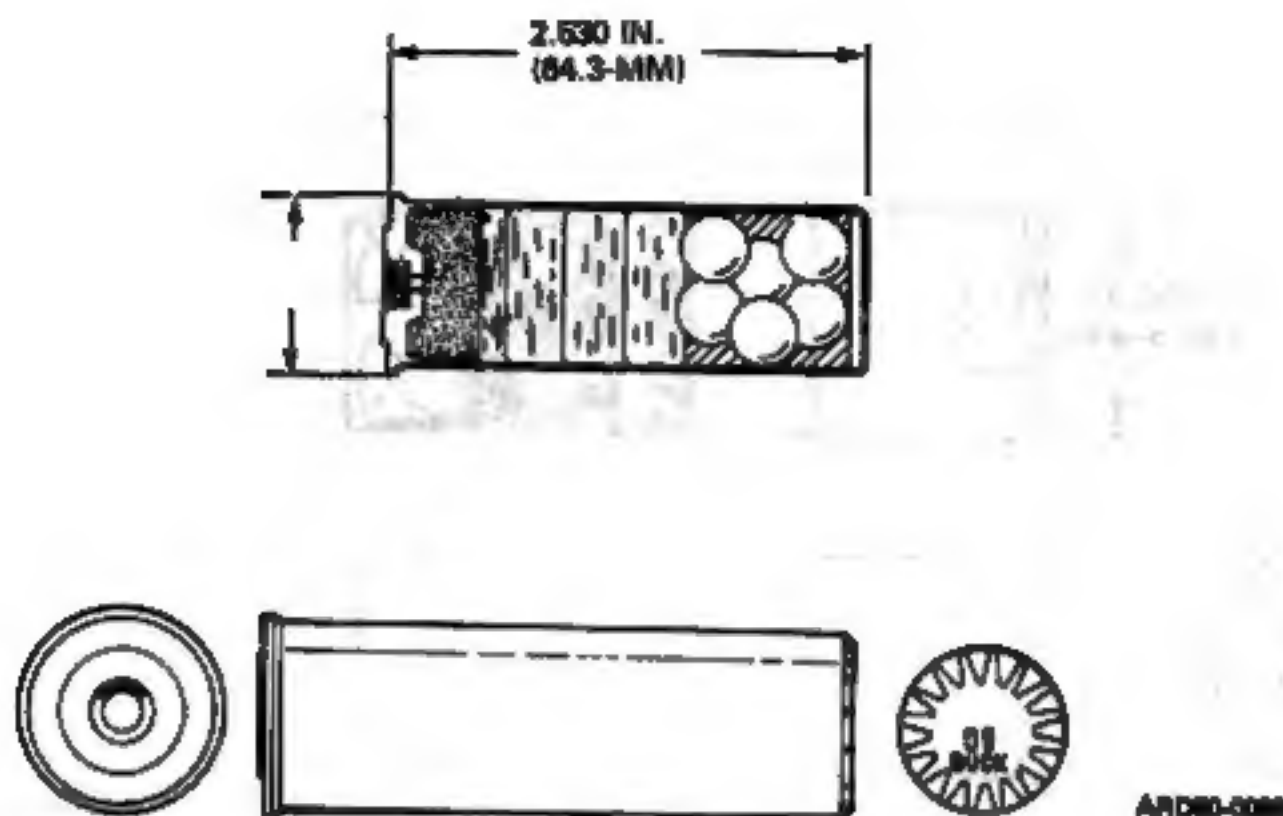
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10542495

References:

TM 9-1005-303-14
TM 9-1300-206
SB 700-20

CARTRIDGE, 12 GAGE, SHOTGUN, No. 00, M162

Type Classification:

LP OTCM 38036

Use:

Military Issue Shotguns, 2-3/4 inch Chamber.

Description:

All plastic ctg case, loaded with smokeless powder and No. 00 Commercial Shot.

Purpose:

The cartridge is intended for guard and combat use.

Tabulated Data:

DODAC	1305-A011
Weight	0.736 grain
Length	2.530 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- MBR

Performance:

Chamber pressure ----- 11,000 psi

Velocity ----- 1325 fps,

3 ft from
muzzleShipping and Storage Data:

Quantity-distance class/SCB -- 1.45

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS

AMMUNITION

Drawing number ----- 10522423

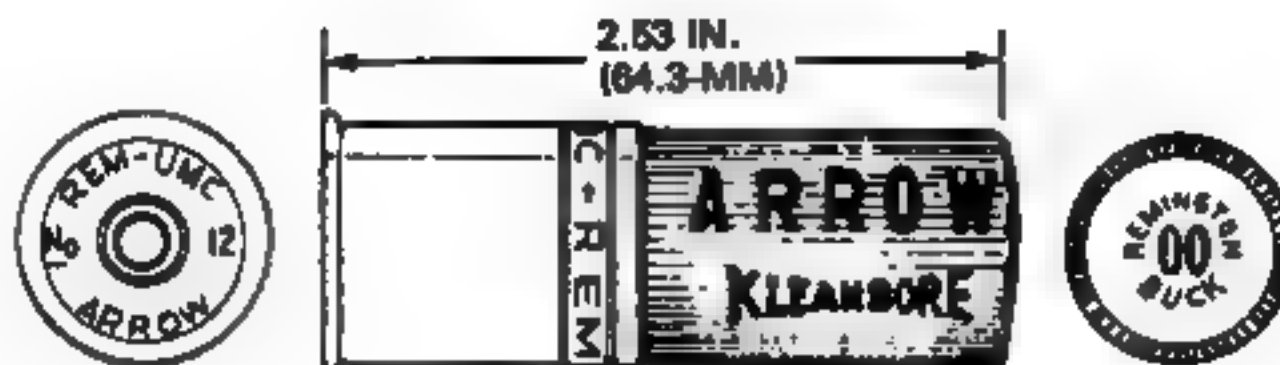
References:

TM 9-1005-303-14

TM 9-1300-206

SB 700-20

CARTRIDGE, 12 GAGE, SHOTGUN, No. 00



ARD80-0067

Type Classification:

Std OTCM 36841

Use:

For Military Issue Shotgun 2-3/4 inch Chamber.

Composition:

Paper ctg case loaded with smokeless powder and No. 00 Commercial Shot.

Purpose:

The cartridge is intended for guard and combat use.

Tabulated Data:

DODAC	1305-A011
Weight	791 grain
Length	2.53 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type Smokeless powder

Weight MBR

Performance:

Chamber pressure 11,000 psi

 Velocity 1325 fps,
 3 ft from
 muzzle
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.45

Storage code Class Y

DOT shipping class C

 DOT designation SMALL ARMS
 AMMUNITION

Drawing number 7553929

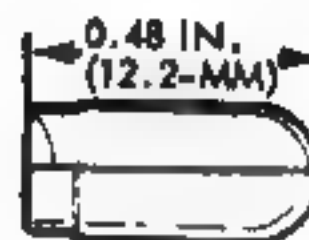
References:

TM 9-1005-303-14

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .22, BALL, LONG RIFLE, M24



ARD80-0088

Type Classification:

OBS - NSR 11766003

Use:

Subcaliber Rifle M2A1 and in Caliber .22 rifle; Remington Models M52, M53 & M513T; Steven's Model 416-2, and Winchester Model 75; in Machine Gun Trainers M3 & M4 and in pistols for gallery practice and training purposes.

Description:

BALL Cartridge.

Purpose:

The cartridge is intended for use against small game for survival purposes.

Tabulated Data:

DODAC	1305-A088
Weight	53 grain
Length	1.00 inch
Tracer	NA
Primer	Percussion (RIMFIRE)
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- 2.5 grain

Projectile:

Weight ----- 40.5 grain

Performance:

Chamber pressure ----- 24,000 psi

Velocity ----- 1185 fps,
16 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.45

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- ~~UNCLASSIFIED~~Drawing number ----- ~~AMMUNITION~~

Drawing number ----- 7640995

References:

TM 9-1005-206-14P/4

TM 9-1005-226-14

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .22, BALL, HORNET, M68



ARDBD-0089

Type Classification:

OBS - MSR 11756003

Use:

For Caliber .22 Survival Weapons M4 & M6.

Description:BALL Cartridge.Purpose:

The cartridge is intended for use against small game.

Tabulated Data:

DODAC	1305-A088
Weight	103 grain
Length	1.723 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	Smokeless powder
Weight	12.6 grain

Performance:

Chamber pressure	43,000 psi
Velocity	2750 fps, 15 ft from muzzle

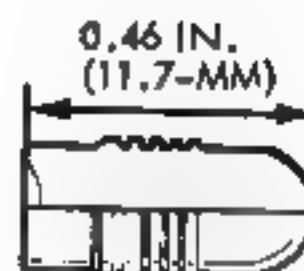
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS MUNITION
Drawing number	7553664

References:

TM 9-1005-206-14P/4
 TM 9-1005-226-14
 TM 9-1300-206
 SB 700-20

CARTRIDGE, CALIBER .22, BALL, LONG RIFLE



AR 0001-1000

Type Classification:

Std - OTCM 36841

Use:

Subcaliber Rifle M2A1 and Winchester rifles Models 52, 75; Remington models M40X, 513T; machine gun trainers M3 & M4 and pistols used for gallery practice and training purposes.

Description:

BALL Cartridge grade match.

Purpose:

The cartridge is intended for marksmanship practice.

Tabulated Data:

DODAC	1305-A091
Weight	52 grains
Length	1.00 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	24,000 psi
Velocity	1125 Standard Velocity Round, 1265 High Velocity Round at 15 ft from muzzle

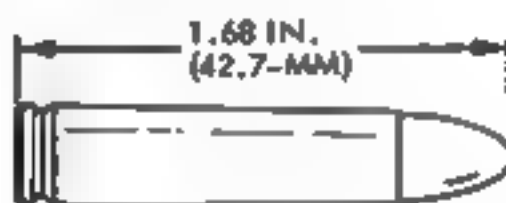
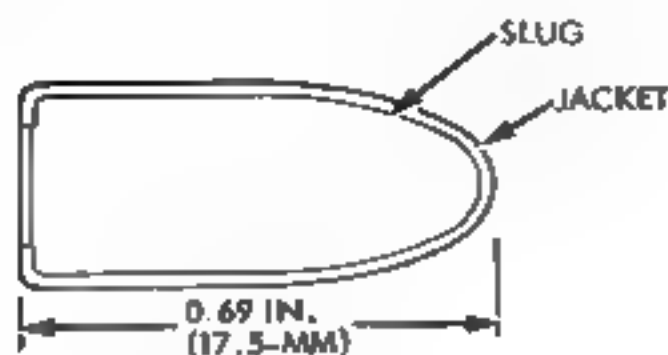
Shipping and Storage Data:

Quantity-distance class/SCG	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
Drawing number	7553931

References:

TM 9-1005-206-14P/4
TM 9-1005-226-14
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, CARBINE, BALL, M1



ARDB-0071

Type Classification:

OBS - MSR 11756003

Use:

For Caliber .30, Carbine, M1, M2 or M3.

Description:

BALL Cartridge. The cartridge is identifiable by the lack of bullet tip color code painting.

Purpose:

This cartridge is intended for use against personnel and unarmored targets.

Tabulated Data:

DODAC	1305-A181
Weight	196 grain
Length	1.68 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- WC 820

Weight ----- 13 grain

Projectile:

Weight ----- 111.0 grain

Performance:

Chamber pressure ----- 40,000 psi

Velocity ----- 1900 fps,
53 ft from muzzle

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number ----- 6200954

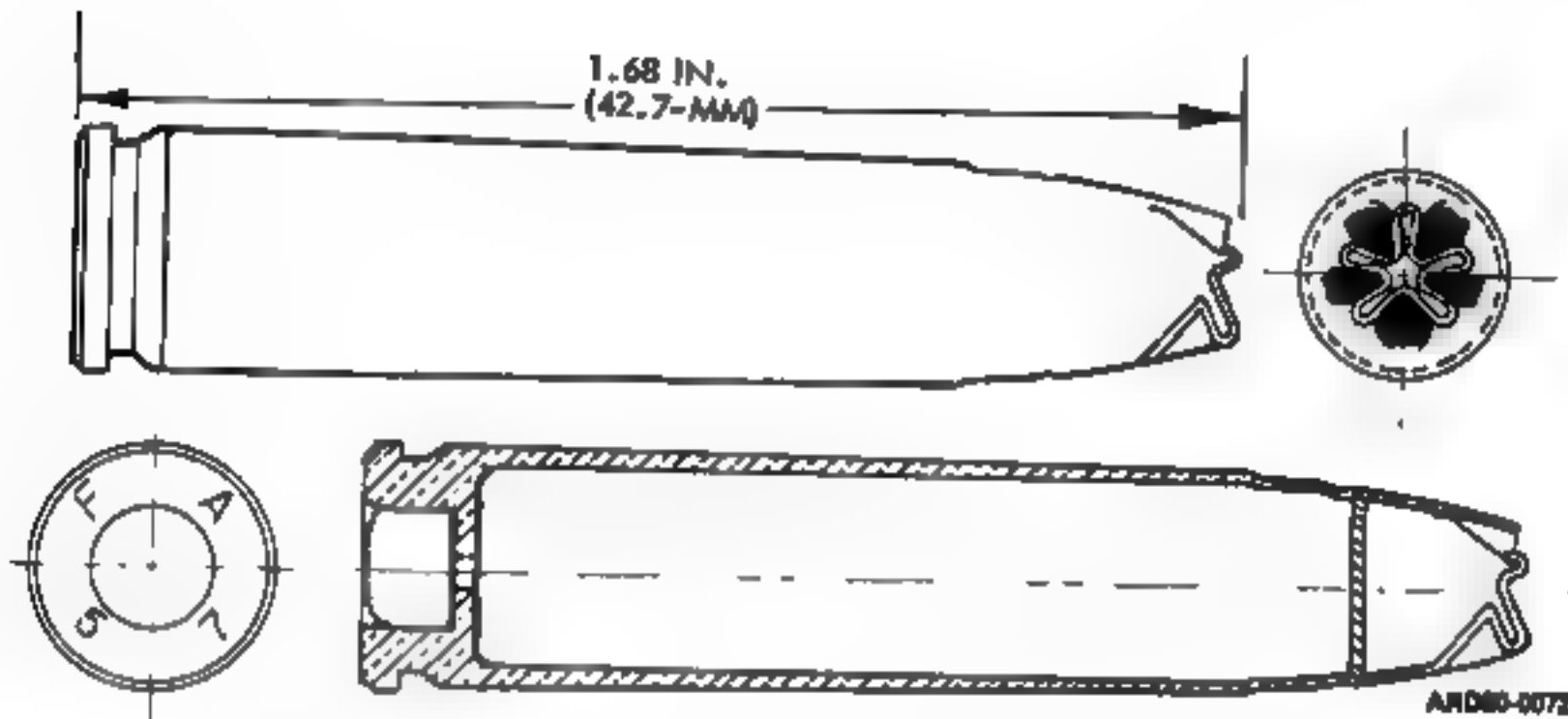
References:

TM 9-1005-210-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30 CARBINE, GRENADE, M0

Type Classification:

OBS - MSR 11756003

Use:

For Caliber .30, Carbine, M1 or M2. This cartridge is currently used as a blank ctg.

Description:

GRENADE Cartridge. The cartridge identified by the rose-petal (Rosette Crimp) closure of the cartridge case mouth.

Purpose:

This cartridge provides pressure to project grenades by using a grenade projection adapter.

Tabulated Data:

DDDAC	1305-6837
Weight	103 grain
Length	1.68 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA
Propellant:	
Type	IMR 4809 & Black powder
Weight	21 grain

Performance:

Chamber pressure	NA
Velocity	146 fps 6 ft from muzzle of the projected grenade

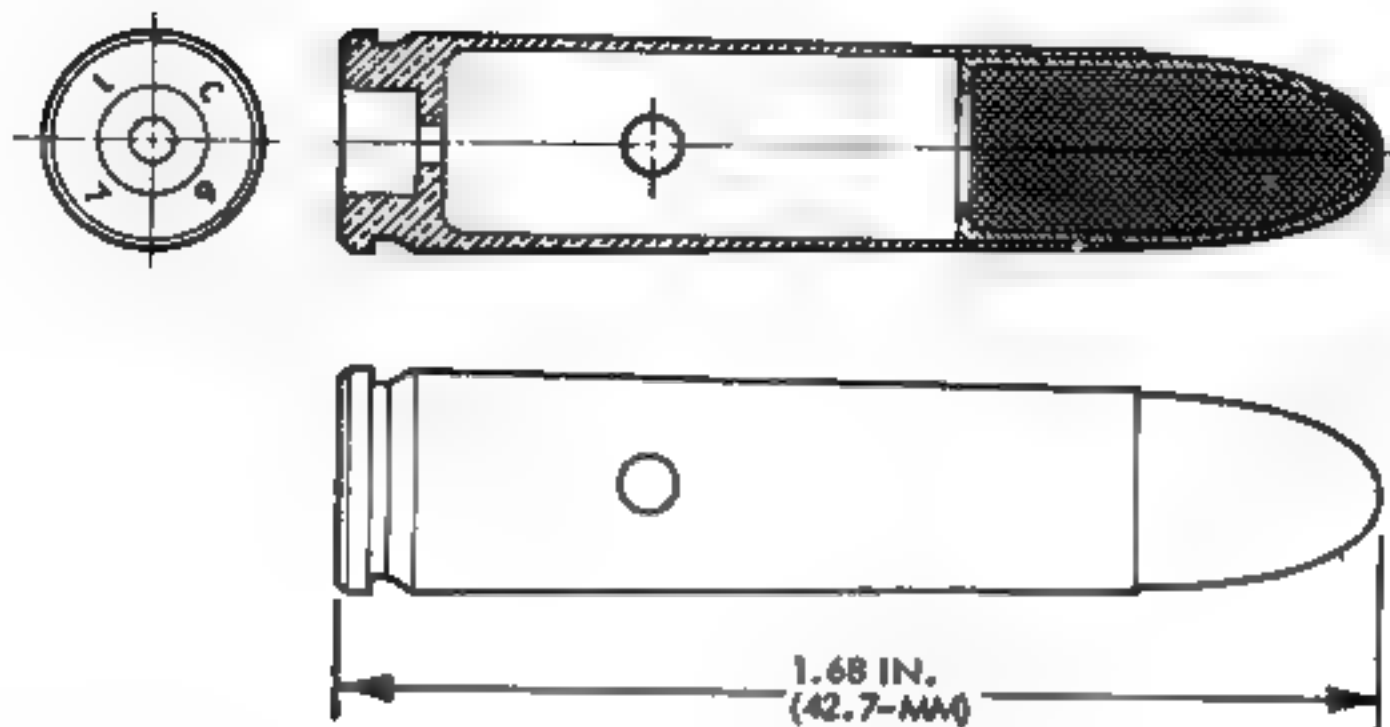
Shipping and Storage Data:

Quantity-distance class/SCB	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	6181079

References:

TM 9-1005-210-12
TM 9-1300-206
SB 700-20

CARTRIDGE, DUMMY, CALIBER .30, CARBINE, M13



ARD80-0073

Type Classification:

OBS - MSR - 11756003

Use:

For Caliber .30, Carbine, M1 or M2.

Description:

DUMMY Cartridge. The cartridge is identified by two holes in the ctg case and the absence of the primer.

Purpose:

This is a completely inert cartridge which is used for practice in loading weapons, for practice firing to detect flinching of personnel when firing, and for inspecting and testing the mechanisms of the weapon.

Tabulated Data:

DODAC	1305-A186
Weight	177 grain
Length	1.68 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

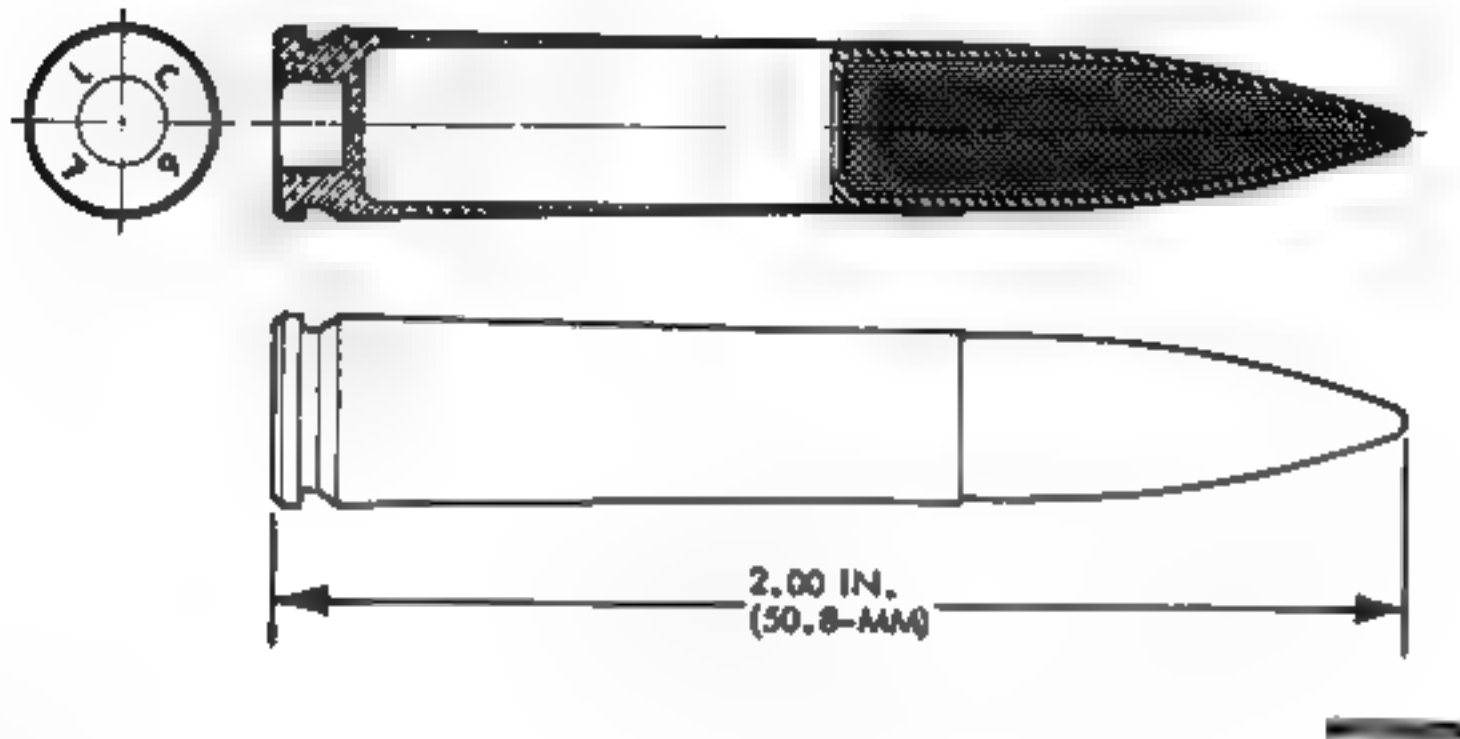
Shipping and Storage Data:

Quantity-distance class/SCG ..	■
Storage code	NA
DOT shipping class	NA
DOT designation	NON EXPLOSIVE AMMUNITION
Drawing number	6177513

References:

TM 9-1005-210-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, CARBINE, BALL, HIGH PRESSURE TEST, M18

Type Classification:

Std - OTCM 36841

Use:

For Caliber .30, Carbine, M1 and M2.

Description:

HIGH PRESSURE TEST Cartridge. The cartridge is identified by the stannic-stained (silvered) ctg case.

Purpose:

The cartridge is used for proof firing of caliber .30 Carbine weapons during manufacture, test, or repair.

Tabulated Data:

DODAC	1305-A185
Weight	243 grain
Length	2.00 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type HPC 6

Weight 14 grain

Performance:

Chamber pressure 47,500 psi

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.4S

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS

AMMUNITION

Drawing number 5176267

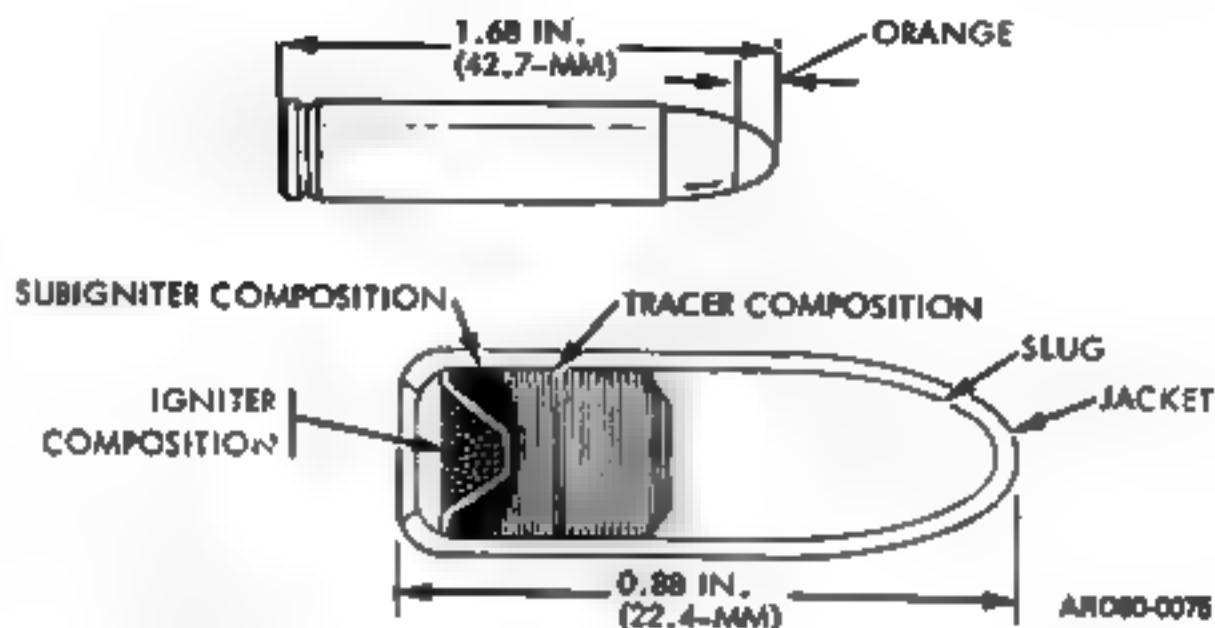
References:

TM 9-1005-210-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30, CARBINE, TRACER, M27

Type Classification:

OBS - MSR - 11756003

Use:

For Caliber .30, Carbine, M1 and M2.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Purpose:

In flight the bullet exhibits a visible trace of full luminosity from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 400 yards from the muzzle.

Tabulated Data:

DODAC	1305-A183
Weight	191 grain
Length	1.68 inch
Tracer	■
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 820
Weight	13 grain

Performance:

Chamber pressure	40,000 psi
Velocity	1800 fps,
	53 ft from
	muzzle

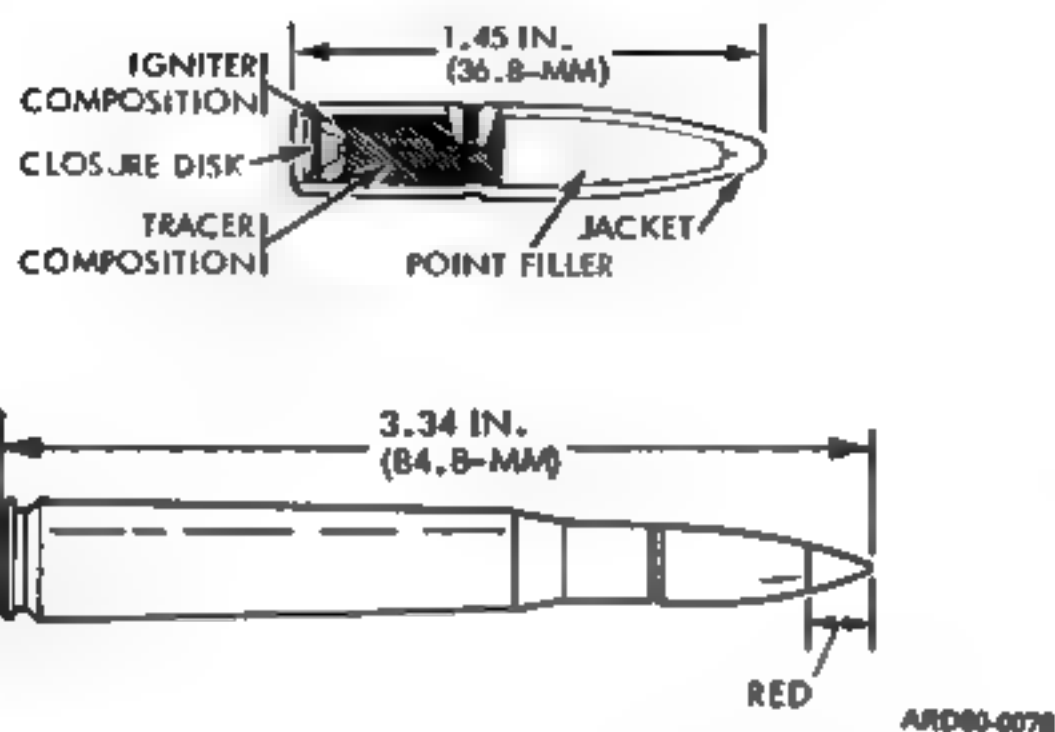
Shipping and Storage Data:

Quantity-distance class/SCG ..	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	76409309

References:

TM 9-1005-210-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, TRACER, M1



Type Classification:

GDS - MSR - 11756003

Use:

Machine Guns, Caliber .30, M37, M1919A4, M1919A6 and Rifle Caliber .30, M1.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Purpose:

The tracer element is intended to permit visible observation of the bullets in-flight path, or trajectory, to the target.

Tabulated Data:

DDOAC	1305-A231
Weight	399 grain
Length	3.34 inch
Tracer	R256
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- IMR 4895

Weight ----- 50 grain

Performance:

Chamber pressure ----- 52,000 psi

Velocity ----- 2665 fps,
78 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.45

Storage code ----- Class Y

DOT shipping class ----- C

DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number ----- 5006764

References:

TM 9-1005-210-12

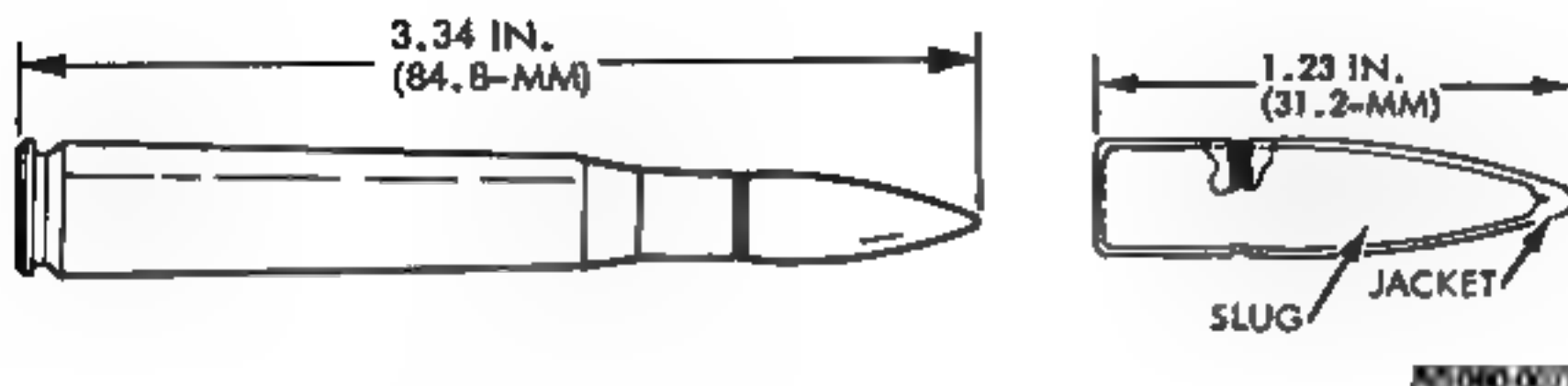
TM 9-1005-212-10

TM 9-1005-222-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30, BALL HIGH PRESSURE TEST, M1

Type Classification:

Std - OTCM 37119

Use:

For all Caliber .30 Weapons other than carbines.

Description:

HIGH PRESSURE TEST Cartridge. The cartridge is identified by stannic-stained (silvered) cartridge case.

Purpose:

This cartridge is used to proof test caliber .30 rifles and machine guns during manufacture, test, or repair.

Tabulated Data:

DODAC	1305-A237
Weight	432 grain
Length	3.34 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type IMR 4198

Weight 52 grain

Performance:

Chamber pressure 57,500 psi

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCB .. 1.4S

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS

Drawing number 6016308

References:

TM 9-1005-210-12

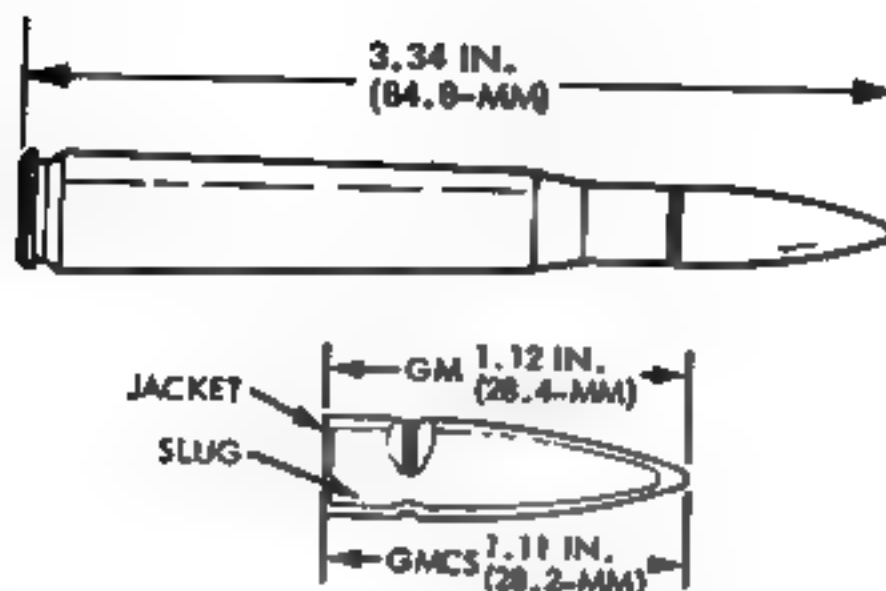
TM 9-1005-212-10

TM 9-1005-222-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30, BALL, M2



ARDB-0078

Type Classification:

OBS - MSR 11756003

Use:

Machine Guns, Caliber .30, M37, M1919A4, M1919A6, and Rifle Caliber .30, M1.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Purpose:

The cartridge is intended for use against personnel or unarmored targets.

Tabulated Data:

DODAC	1305-A212
Weight	416 grain
Length	3.34 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	IMR 4895
Weight	50 grain

Performance:

Chamber pressure	50,000 psi
Velocity	2740 fps,
	78 ft from
	muzzle

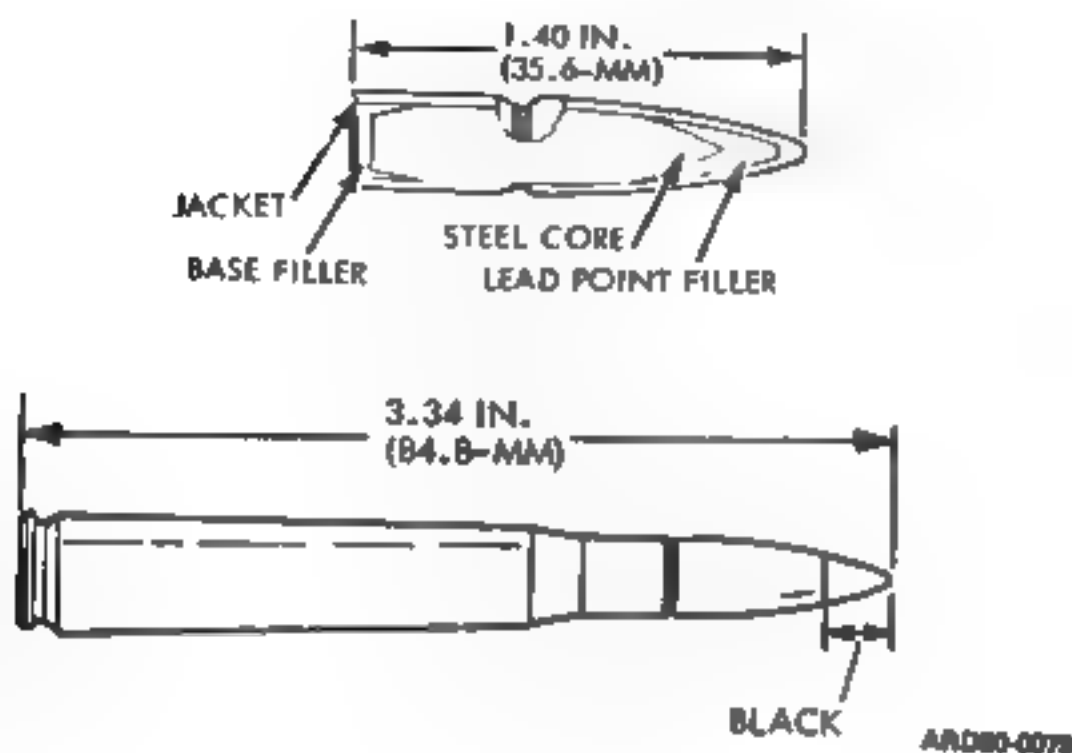
Shipping and Storage Data:

Quantity-distance class/SCG	-- 1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	6137544

References:

TM 9-1005-210-12
TM 9-1005-212-10
TM 9-1005-222-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, ARMOR PIERCING, M3



Type Classification:

ONS - MSR 11756003

Use:

Machine Guns, Caliber .30, M37, M1919A4, M1919A6, and Rifle Caliber .30, M1.

Description:

ARMOR PIERCING Cartridge. The cartridge is identified by a black bullet tip.

Purpose:

Penetration, fired at 7/8 inch thick homogeneous armor-plate at 100 yards will be not less than 0.42 inch.

Tabulated Data:

DODAC	1305-A202
Weight	424 grain
Length	3.34 inch
Tracer	■
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	MC 852
Weight	55 grain

Projectile:

Weight	165.7 grain
--------	-------------

Performance:

Chamber pressure	54,000 psi
Velocity	2715 fps, 78 ft from muzzle

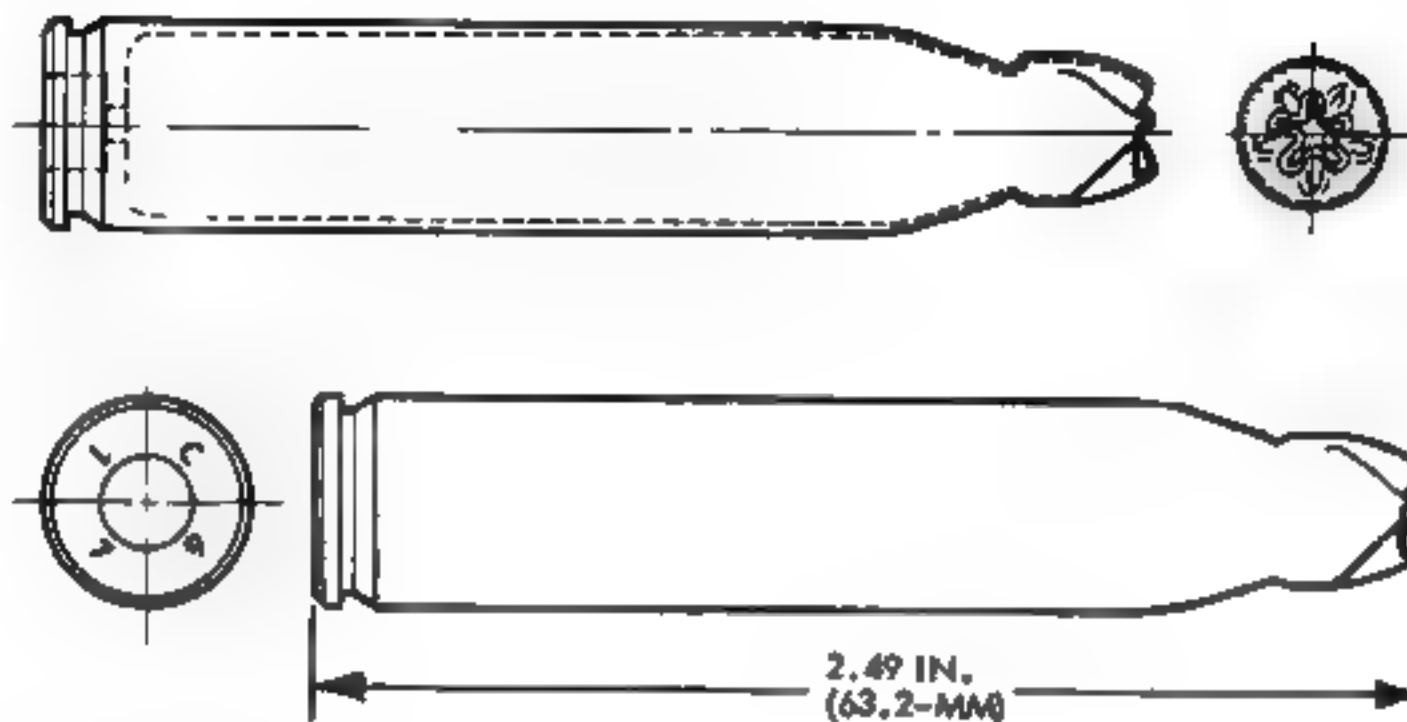
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	6138194

References:

TM 9-1005-210-12
TM 9-1005-212-10
TM 9-1005-222-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, GRENADE, M3

Type Classification:

OBS - MSR 11756003

Use:

Rifle Caliber .30, M1.

Description:

GRENADE Cartridge. The cartridge is identified by a rose petal (rosette-crimped) closure of the cartridge case mouth.

Purpose:

The ctg provides the pressure to project rifle grenades when using a grenade projection adapter.

Tabulated Data:

DODAC	1305-6838
Weight	248 grain
Length	2.49 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	IMR 4895
Weight	45 grain

Performance:

Chamber pressure	NA
Velocity	180 fps
	6.5 ft from muzzle/projected grenade

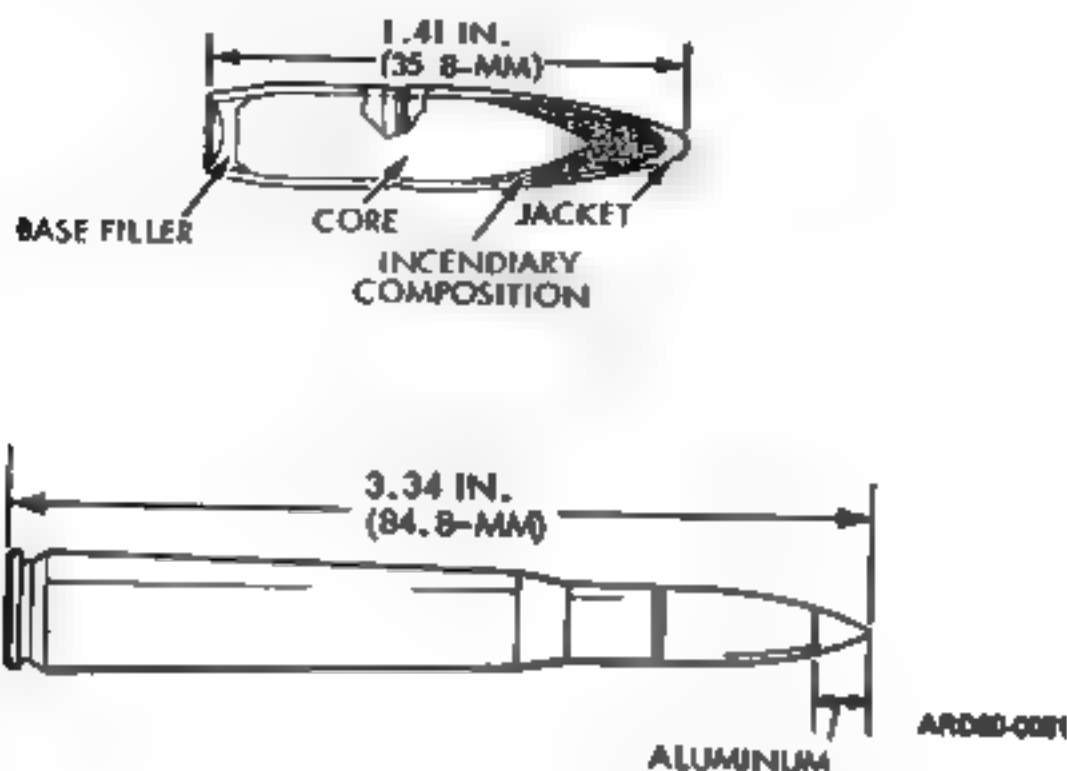
Shipping and Storage Data:

Quantity-distance class/SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	6173949

References:

TM 9-1005-210-12
TM 9-1005-222-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, ARMOR PIERCING INCENDIARY, M14



Type Classification:

OBS - MSR 11756003

Use:

Machine Guns, Caliber .30, M37, M1919A4, M1919A6 and Rifle, Caliber .30, M1.

Description:

ARMOR-PIERCING-INCENDIARY Cartridge. The cartridge is identified by an aluminum bullet tip.

Purpose:

Penetration, fired at 7/8 inch steel plate at 100 yards will not be less than 0.42 inch. Upon impact with a target the incendiary composition bursts into flame and will ignite flammable material.

Tabulated Data:

DODAC 1305-A202
Weight 407 grain
Length 3.34 inch
Tracer NA
Primer Percussion
Fuze NA
Explosive:
Type NA
Weight NA

Incendiary:

Type IM 11
Weight 2 grain

Propellant:

Type WC 852
Weight 50 grain

Performance:

Chamber pressure 54,000 psi
Velocity 2780 fps,
78 ft from
muzzle

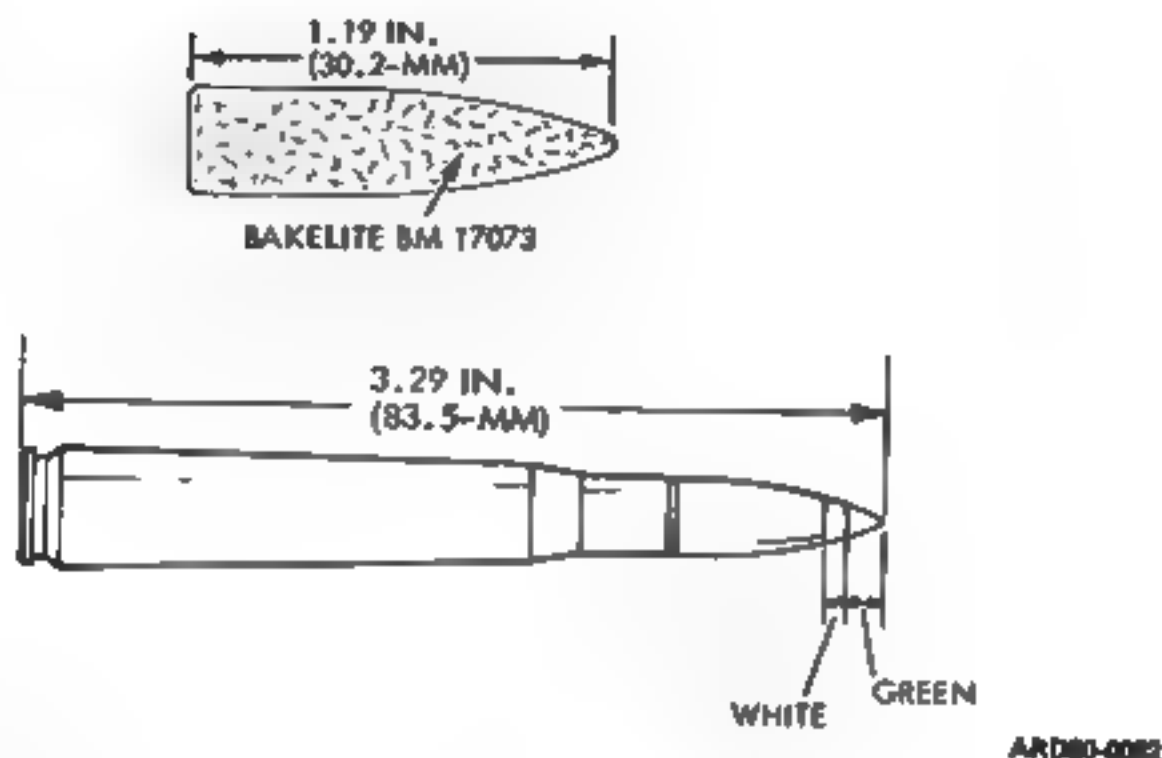
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S
Storage code Class V
DOT shipping class C
DOT designation SMALL ARMS
AMMUNITION
Drawing number 7538431

References:

TM 9-1005-210-12
TM 9-1005-212-10
TM 9-1005-222-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, BALL, FRANGIBLE, M22

Type Classification:

OBS - MSR 11756003

Use:Machine Gun, Caliber .30, M37, M1919A4,
and Rifle, Caliber .30, M1Description:

FRANGIBLE Cartridge. The cartridge is identified by a green bullet tip with a white ring to the rear of the green color.

Purpose:

The bullet disintegrates upon striking a hard or armored target leaving a pencil-like mark to indicate a hit during gunnery practice.

Tabulated Data:

DODAC	1305-A220
Weight	320 grain
Length	3.29 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type SR 4769

Weight 11 grain

Performance:

Chamber pressure NA

Velocity 1320 fps,
53 ft from
muzzleShipping and Storage Data:

Quantity-distance class/SCB .. 1.4S

Storage code Class Y

DOT shipping class C

DOT designation SMALL ARMS
AMMUNITION

Drawing number 7640951

References:

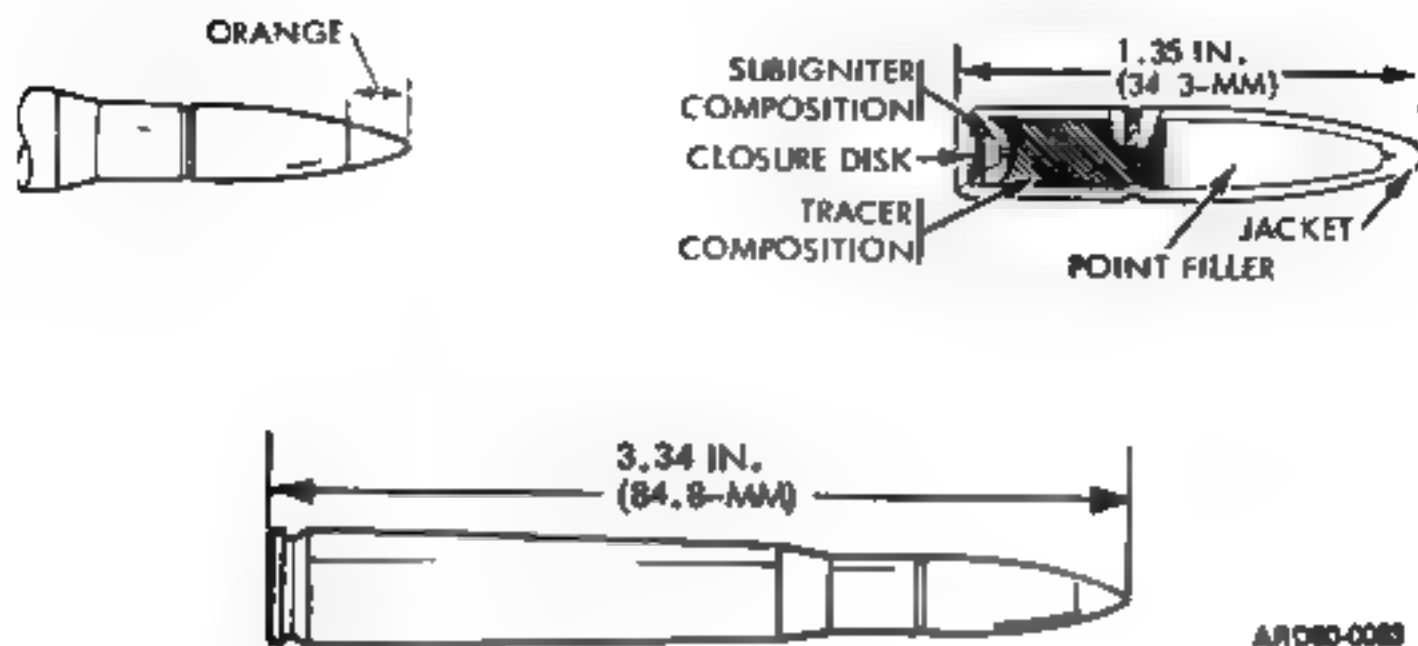
TM 9-1005-210-12

TM 9-1005-212-10

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30, TRACER, M28



Type Classification:

OBS - MSR 11756003

Use:

Machine Guns, Caliber .30, M1917A1, M37, M1919A4, M1919A6, and Rifle, Caliber .30, M1.

Description:

TRACER Cartridge. The cartridge is identified by an orange bullet tip.

Purpose:

In flight, the bullet exhibits a trace of full luminosity from a point not greater than 75 yards from the muzzle of the weapon to a point not less than 900 yards from the muzzle. The cartridge is intended for use against personnel and unarmored targets.

Tabulated Data:

DODAC	1305-A230
Weight	401 grain
Length	3.34 inch
Tracer	R321
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight	NA
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Propellants:

Type WC 852

Weight 50 grain

Projectile:

Weight ----- 145.5 grain

Performance:

Chamber pressure ----- 50,000 psi

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chamber pressure ----- 20,000 psi
Velocity ----- 2665 fps,
                  78 ft from
MUZZLE

```

Shipping and Storage Data:

Quantity-distance class/\$C6 -- 1.45

Storage code Class V

DOT shipping class ***** C

DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number 7640667 {Brass Case}
7553949 {Steel Case}

References:

TM 9-1005-210-12

TM 9-1005-212-10

TM 9-1005-222-12

TM 9-1300-206

SA 700-20

CARTRIDGE DUMMY, .CALIBER .30, M40



ARD80-0084

Type Classification:

Std - OTCM 37119

Use:

All Caliber .30 weapons except carbine.

Description:

DUMMY Cartridge. The cartridge is identified by six one-inch longitudinal corrugations (flutings) in the cartridge case. In addition there is no primer.

Purpose:

This is an inert cartridge which is used for practice in loading weapons for simulated firing to detect flinching of personnel when firing and for inspecting and testing the mechanisms of small-arms weapons.

Tabulated Data:

DDOAC	1305-A226
Weight	260 grain
Length	3.34 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type NA

Weight NA

Performance:

Chamber pressure NA

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- NA

Storage code NA

DOT shipping class NA

DOT designation Non-Explosive
AMMUNITION

Drawing number 7553591

References:

TM 9-1005-210-12

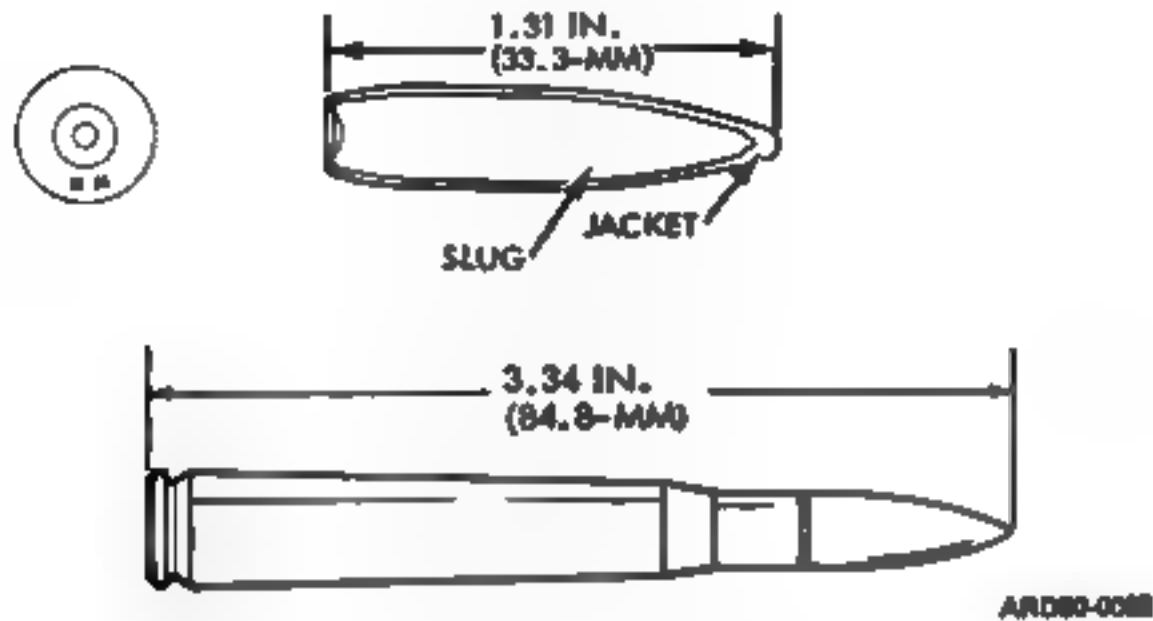
TM 9-1005-212-10

TM 9-1005-222-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .30, BALL, MATCH, M72



Type Classification:

Std - OTCM 37119

Use:

Rifle, Caliber .30, M1 and National Match, Caliber .30, Rifles.

Description:

MATCH Cartridge. The cartridge is identified by head stampings on the base of the cartridge case with either the initials NM (National Match) or the word MATCH.

Purpose:

This ctg is not designed to be fired in any weapon except those designated as competition rifles.

Tabulated Data:

DODAC	1305-A247
Weight	425 grain
Length	3.34 inch
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:

Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	IMR 4895
Weight	50 grain

Performance:

Chamber pressure	50,000 psi
Velocity	2640 fps, 78 ft from muzzle

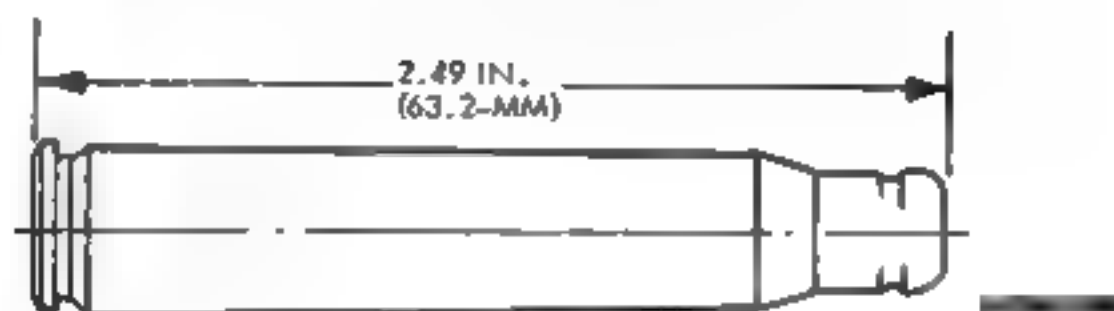
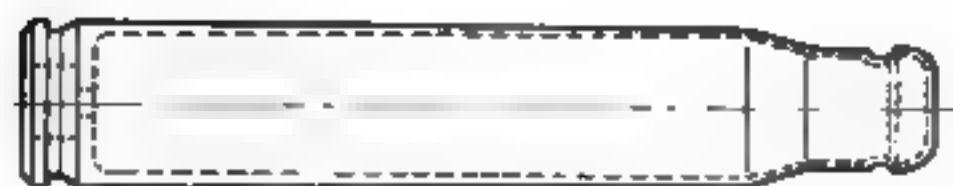
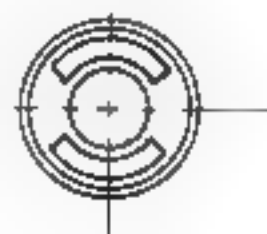
Shipping and Storage Data:

Quantity-distance class/SCG ..	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	8595432

References:

TM 9-1005-222-12P/1
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .30, BLANK, M1909

Type Classification:

OCS - MSR - 11756003

Use:

Machine Guns, Caliber .30, M1919A4, M1919A6,
and Rifle, Caliber .30, M1.

Description:

BLANK Cartridge. The cartridge is identified
by the absence of a bullet.

Purpose:

The ctg is used for simulated firing in train-
ing or for saluting purposes.

Tabulated Data:

DODAC	1305-A222
Weight	218 grain
Length	2.49 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- SR 4990

Weight ----- 12 grain

Performance:

Chamber pressure ----- NA

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.4S

Storage code ----- Class Y

DOT shipping class ----- C

DOT designation ----- SMALL ARMS

Drawing number ----- 6006152

References:

TM 9-1005-210-12

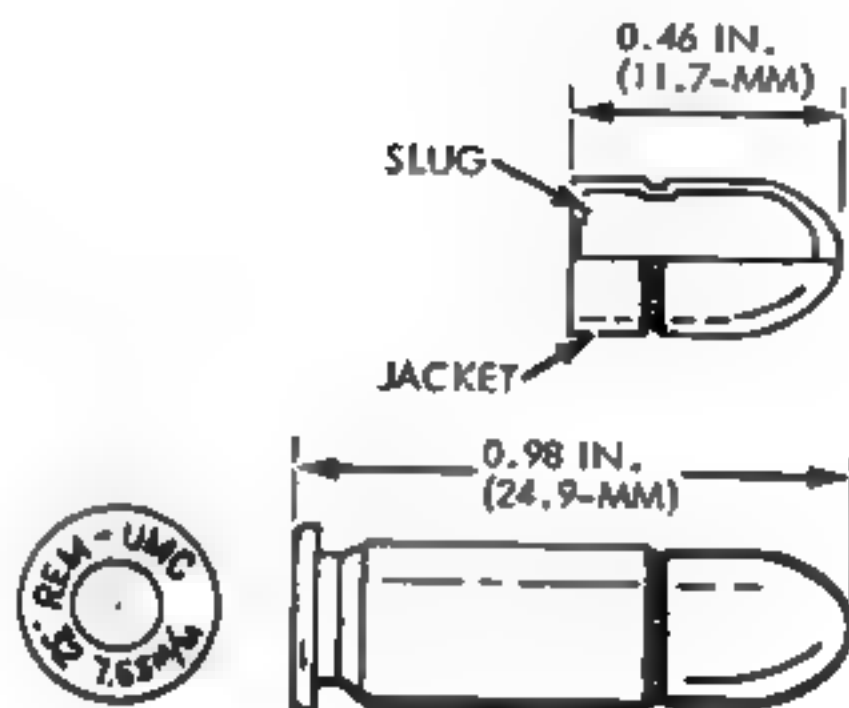
TM 9-1005-212-10

TM 9-1005-222-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .32, BALL



AND80-0087

Type Classification:

Commercial

Use:

For Test of .32 Caliber Weapons.

Description:

BALL Cartridge.

Purpose:

The cartridge is used for proof testing caliber .32 automatic weapons during manufacturing, test or repair.

Tabulated Data:

DODAC	1305-A350
Weight	115 grain
Length98 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type Smokeless powder

Weight NA

Performance:

Chamber pressure 15,000 psi

Velocity 900 fps,
15 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCG .. 1.4S

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS
AMMUNITION

Drawing number 10524631

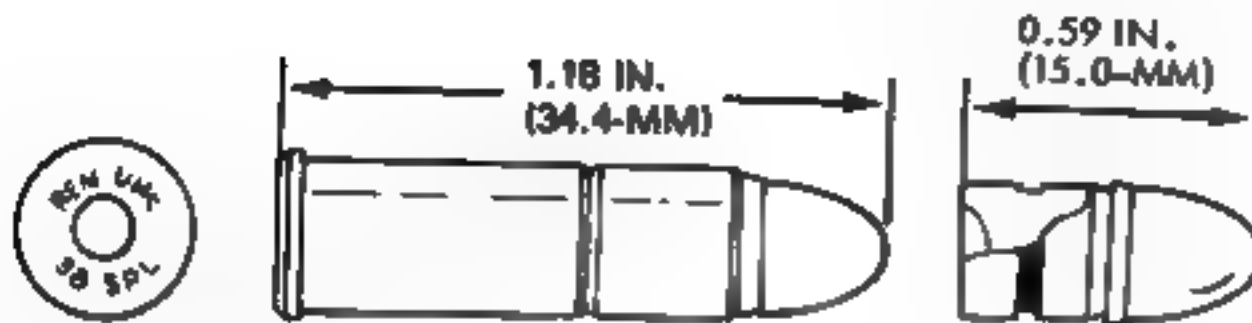
References:

TM 9-1005-206-14P/3

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .38, BALL



ARDBD-0088

Type Classification:

DBS - MSR - 11756003

Use:

SAAMI Test of .38 Caliber weapons.

Description:BALL Cartridge with unjacketed lead bullet.Purpose:

This cartridge is used for proof testing new or repaired Caliber .38 weapons. To determine weapon component wear factors.

Tabulated Data:

DDAC	1305-A408
Weight	196 grain
Length	1.18 inch
Tracer	NA
Primer	Percussion
Fuze	■
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	Smokeless powder
Weight	MBR

Performance:

Chamber pressure	13,000 psi
Velocity	725 fps, 15 ft from muzzle

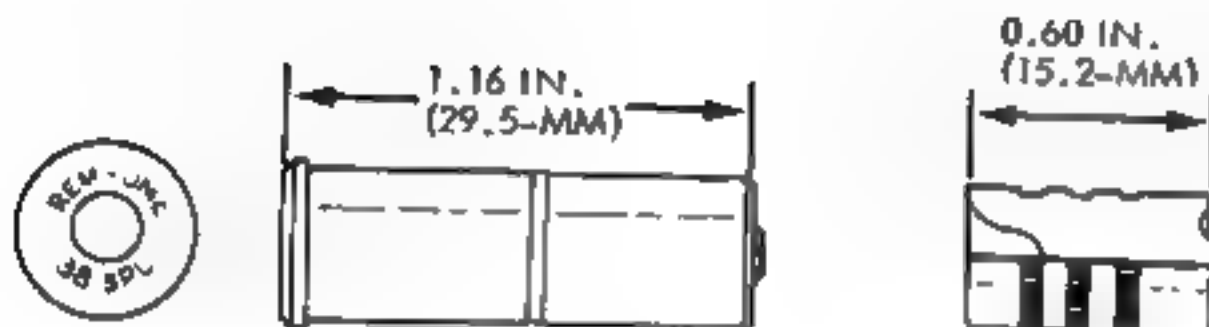
Shipping and Storage Data:

Quantity-distance class/SCG	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10524005

References:

TM 9-1005-206-14P/1
TM 9-1005-206-14P/3
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .38, BALL, WAD CUTTER



ARD80-0088

Type Classification:

Commercial

Use:

For Revolver, Special, S & W, K-38.

Description:WAD CUTTER Cartridge.Purpose:

The bullet is designed with a concave forward end to act as a paper punch cutting a clean hole in targets. It is used only in pistol competition firing.

Tabulated Data:

DODAC	1305-A404
Weight	220 grain
Length	1.16 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- MBR

Performance:

Chamber pressure ----- 16,000 psi

 Velocity ----- 800 fps,
 15 ft from
 muzzle
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code ----- Class V

DOT shipping class ----- C

 DOT designation ----- SMALL ARMS
 AMMUNITION

Drawing number ----- 10521459

References:

TM 9-1005-206-14P/1

TM 9-1005-206-14P/3

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .38, BALL, SPECIAL, M41



ARD80-0090

Type Classification:

Std - OTCM 36841

Use:

For Revolver.

Description:BALL Cartridge with jacketed bullet.Purpose:

This cartridge is intended for use against personal defense hand guns; it has a small tracer unit to provide observation of the ballistic path during practice firing. The tracer is ignited by the heat of the propellant gases.

Tabulated Data:

DODAC	1305-A400
Weight	203 grain
Length	1.55 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- SR 7325

Weight ----- 4.8 grain

Performance:

Chamber pressure ----- 16,000 psi

 Velocity ----- 950 fps,
 15 ft from
 muzzle
Shipping and Storage Data:

Quantity-distance class/SCB -- 1.45

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number ----- 7553580

References:

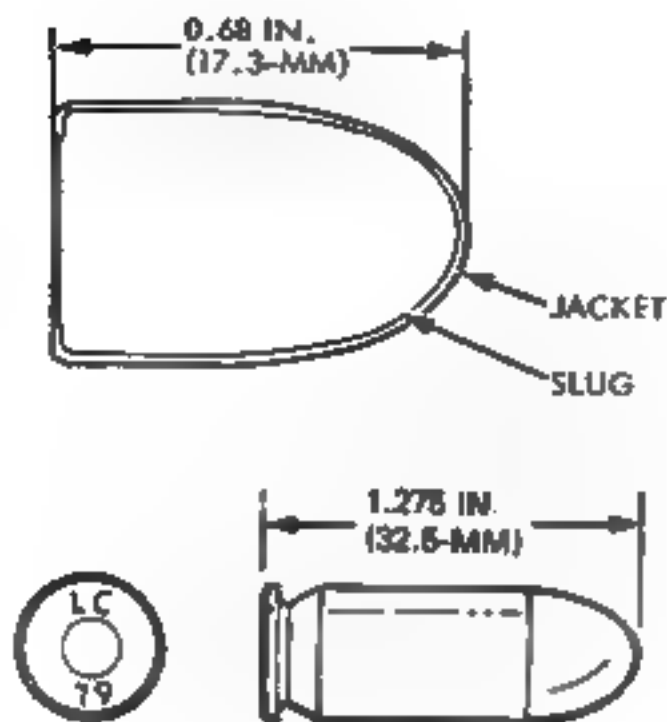
TM 9-1005-206-14P/1

TM 9-1005-206-14P/3

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .45, BALL, HIGH PRESSURE TEST, M1

Type Classification:

Std - DTCM 36841

Use:

For Test of all Caliber .45 Weapons.

Description:

HIGH PRESSURE TEST Cartridge. The cartridge is identified by a stannic-stained (silvered) cartridge case.

Purpose:

The cartridge is used for proof testing Caliber .45 Pistols and Submachine Guns during manufacture, test, or repair.

Tabulated Data:

DODAC	1305-A480
Weight	332 grain
Length	1.275 inch
Tracer	NA
Primer	Percussion
Fuze	■
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type SR 7970

Weight 7 grain

Performance:

Chamber pressure 22,000 psi

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS

Drawing number C6000502

References:

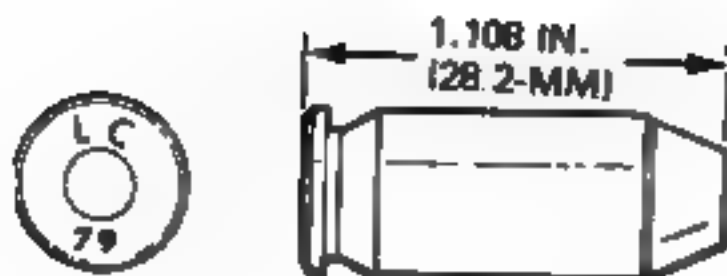
TM 9-1005-211-12

TM 9-1005-229-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .45, BLANK, M9



ARDBD-0082

Type Classification:

Std - AMCTC 505

Use:

Pistol, Automatic, Caliber .45, M1911A1.

Description:

BLANK Cartridge. The cartridge is identified by the absence of a bullet and the tapered mouth of the cartridge case.

Purpose:

The cartridge is used for simulated firing in training maneuvers and for saluting purposes.

Tabulated Data:

DODAC	1305-A476
Weight	104 grain
Length	1.108 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	SR 4990
Weight	10 grain

Performance:

Chamber pressure	NA
Velocity	NA

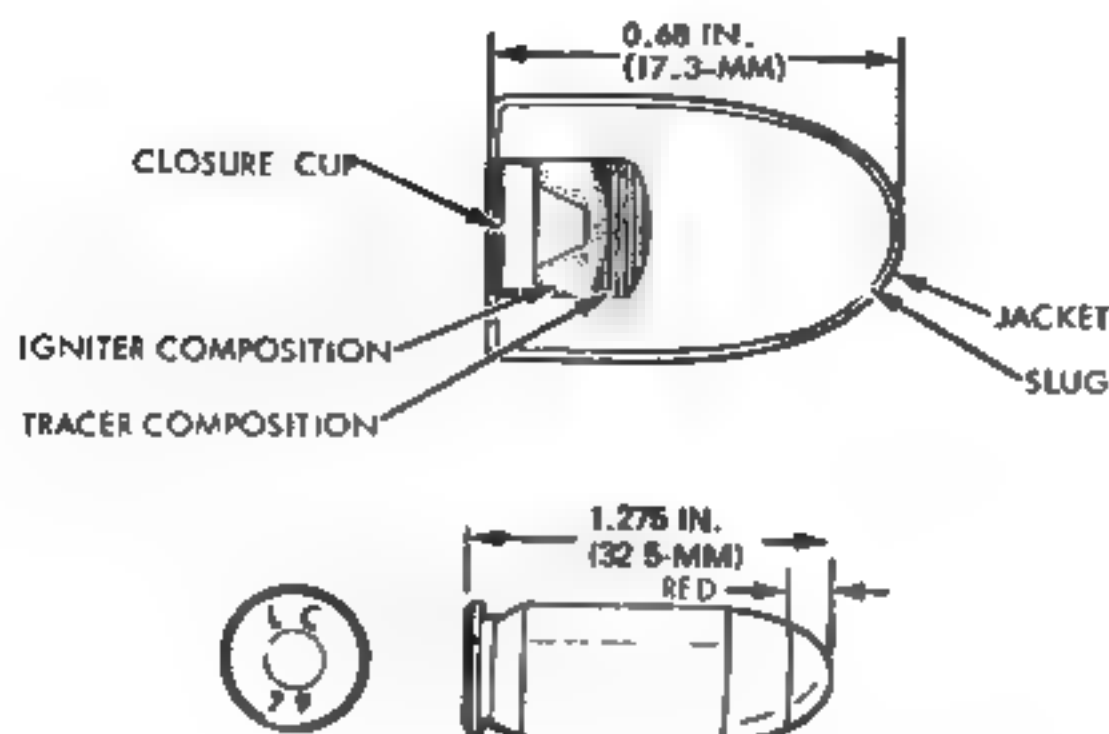
Shipping and Storage Data:

Quantity-distance class/SCG	-- 1.4S
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10523805

References:

TM 9-1005-211-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .45, TRACER, M26



AND80-0088

Type Classification:

CON - MSR 11756003

Use:

Submachine gun, Caliber .45, M3A1 and Pistol, Caliber .45, M1911A1.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Purpose:

The tracer is intended to permit observation of the bullets in-flight path or trajectory to the point of impact.

Tabulated Data:

DDOAC	1305-A479
Weight	331 grain
Length	1.275 inch
Tracer	R256
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA
Weight NA

Propellant:

Type SR 7970
Weight 6 grain

Performance:

Chamber pressure 19,000 psi
Velocity 885 fps,
25.5 ft from
muzzle

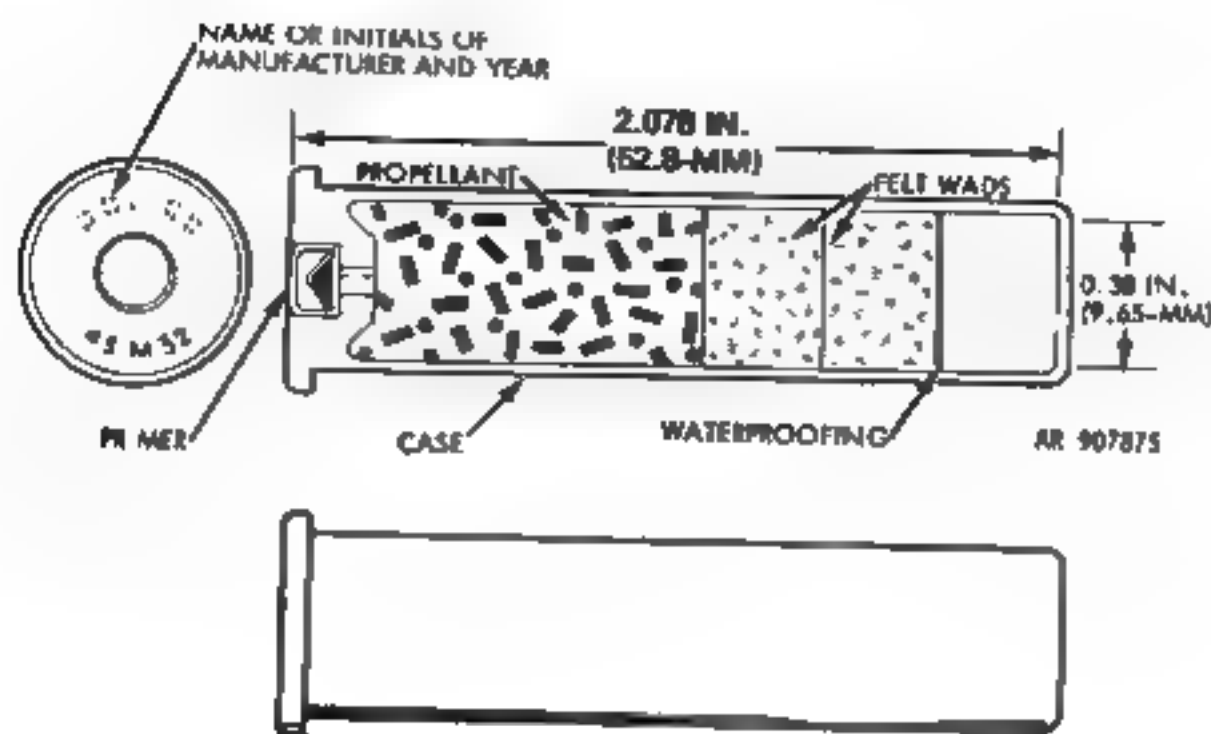
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.45
Storage code Class V
DOT shipping class C
DOT designation SMALL ARMS
AMMUNITION
Drawing number 10534359

References:

TM 9-1005-211-12
TM 9-1005-229-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .45, LINE THROWING, M32



AR 907875

Type Classification:

Std A - OTCM 36841

Use:

Line Throwing Gun, Caliber .45/70.

Description:

The cartridge is composed of a brass case, primer, commercial smokeless powder, and two felt wads, coated on both sides with gummed paper. The wads are sealed with red lacquer. The cartridge case mouth is crimped to prevent entry of the line-throwing rod.

Purpose:

The line carrying rod is placed in the weapon barrel; cartridge initiation provides pressure to force the rod out of the barrel and propelling the line to the target.

Tabulated Data:

DODAC ----- 1305-A477
 Weight ----- 192 grain
 Length ----- 2.078 inch
 Tracer ----- NA
 Primer ----- Percussion
 Fuze ----- NA
 Explosive:
 Type ----- ■
 Weight ----- ■

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- MBR

Performance:

Chamber pressure ----- 20,000 psi

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS

AMMUNITION

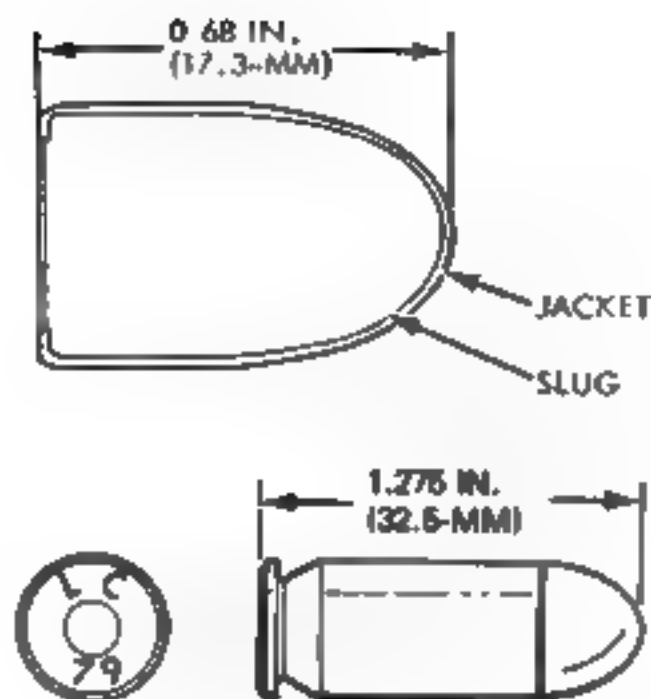
Drawing number ----- 7553068

References:

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .45, BALL, M1911



AND80-0085

Type Classification:

Std - OTCM 36841

Use:

Submachine Gun, Caliber .45, M3A1 and
Pistol, Caliber .45 M1911A1.

Description:

BALL Cartridge. The cartridge is identified
by the plain bullet tip.

Purpose:

The cartridge is intended for use against
personnel.

Tabulated Data:

DODAC	-----	1305-A475
Weight	-----	331 grain
Length	-----	1.275 inch
Tracer	-----	NA
Primer	-----	Percussion
Fuze	-----	■
Explosive:		
Type	-----	NA
Weight	-----	NA
Incendiary:		
Type	-----	NA
Weight	-----	NA

Propellant:

Type	-----	SR 7970
Weight	-----	5 grain

Performance:

Chamber pressure	-----	19,000 psi
Velocity	-----	885 fps, 25.5 ft from muzzle

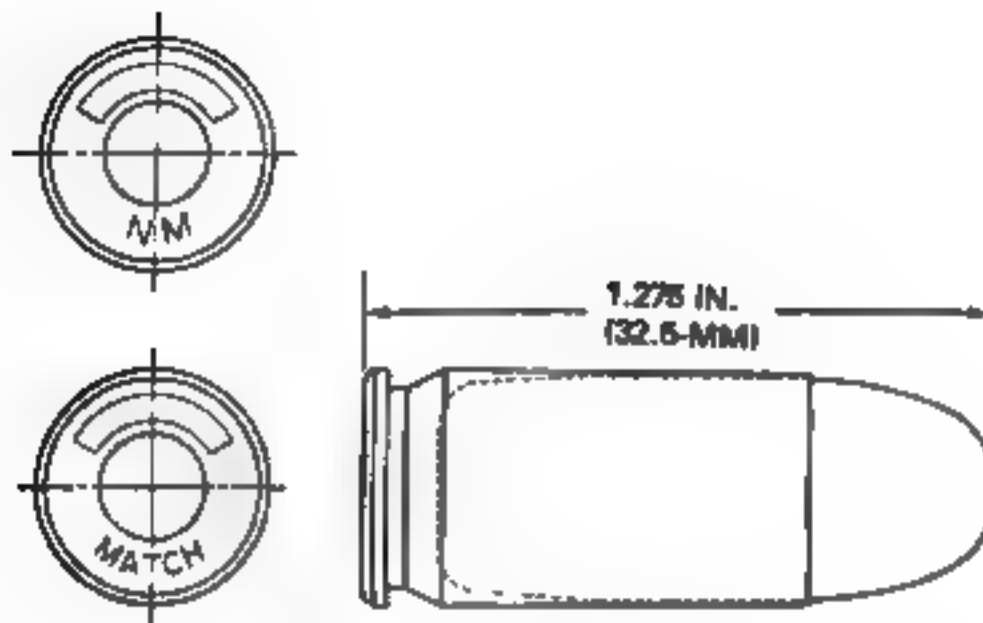
Shipping and Storage Data:

Quantity-distance class/SCG	---	1.45
Storage code	-----	Class V
DOT shipping class	-----	C
DOT designation	-----	SMALL ARMS AMMUNITION
Drawing number	-----	6000503

References:

TM 9-1005-211-12
TM 9-1005-229-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .45, BALL, MATCH, M1911



Type Classification:

Std - DTCM 36841

Use:

Pistol, Caliber .45, M1911A1 and National Match Caliber .45.

Description:

BALL Cartridge. This cartridge is identified by head stampings on the base of the cartridge case either NM (National Match) or MATCH.

Purpose:

To be used only in those weapons designated as competition pistols.

Tabulated Data:

DODAC	1305-A471
Weight	334 grain
Length	1.275 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type SR 7970

Weight 5 grain

Performance:

Chamber pressure 19,000 psi

Velocity 888 fps,
 ±25.6 ft from
 muzzle

Shipping and Storage Data:

Quantity-distance class/SCG .. NA

Storage code NA

DOT shipping class C

DOT designation SMALL ARMS
 AMMUNITION

Drawing number 8596136

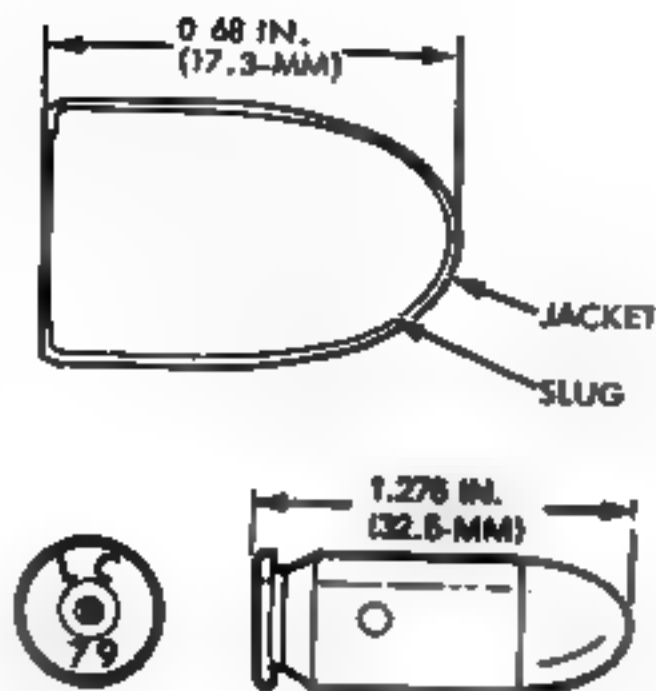
References:

TM 9-1005-211-12

TM 9-1300-206

SB 700-20

DUMMY CARTRIDGE, CALIBER .45, M1921



ARDB-4087

Type Classification:

Std - OTCM 38841

Use:

Submachine Gun, Caliber .45, M3A1 and Pistol, Caliber .45, M1911A1.

Description:

DUMMY Cartridge. The cartridge is identified by the drilled holes in the cartridge case and the absence of a primer.

Purpose:

This cartridge is used during simulated firing exercises to detect flinching of personnel when firing, and for inspecting and testing the mechanism of the weapon.

Tabulated Data:

DODAC	1305-A501
Weight	305 grain
Length	1.275 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- NA

Weight ----- NA

Performance:

Chamber pressure ----- NA

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SCB -- NA

Storage code ----- NA

DOT shipping class ----- NA

DOT designation ----- Non-Explosive Ammunition

Drawing number ----- ~~XXXXXX~~References:

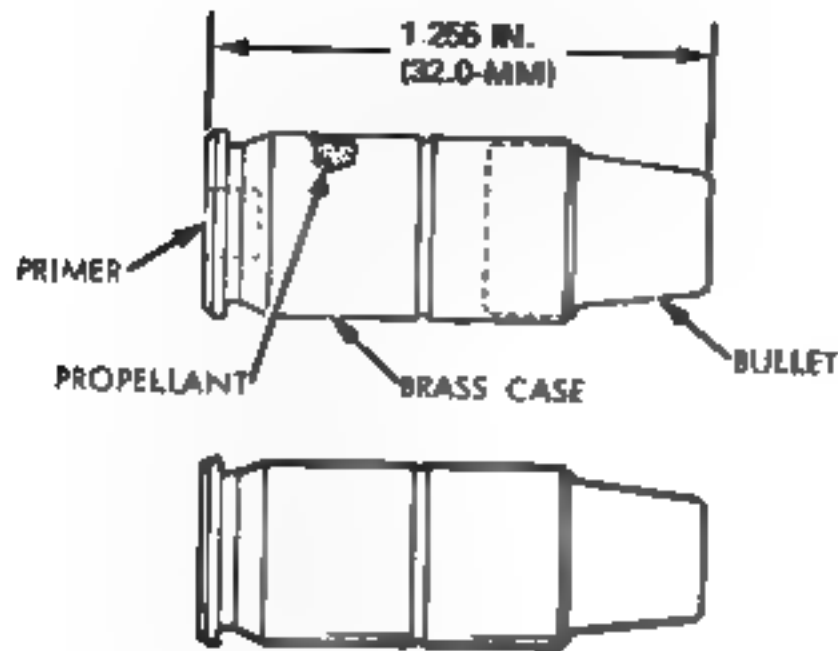
TM 9-1005-211-12

TM 9-1005-229-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .45, WAD CUTTER



ANDSO-0088

Type Classification:

■

Use:

Pistol Caliber .45, M1911A1 and National Match Caliber .45.

Description:

WAD CUTTER Cartridge. The cartridge is identified by the bullet shape which has the general appearance of a truncated cone.

Purpose:

The forward end of the bullet has a concave surface and acts as a hole punch to cut a clean hole in the target.

Tabulated Data:

DODAC	1305-A482
Weight	330 grains
Length	1.255 inch
Tracer	NA
Primer	Percussion
Fuze	■
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- Smokeless powder

Weight ----- MBR

Performance:

Chamber pressure ----- 18,000 psi

Velocity ----- 765 fps,
15 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code ----- Class V

DOT shipping class ----- C

DOT designation ----- SMALL ARMS
AMMUNITION

Drawing number ----- 10521458

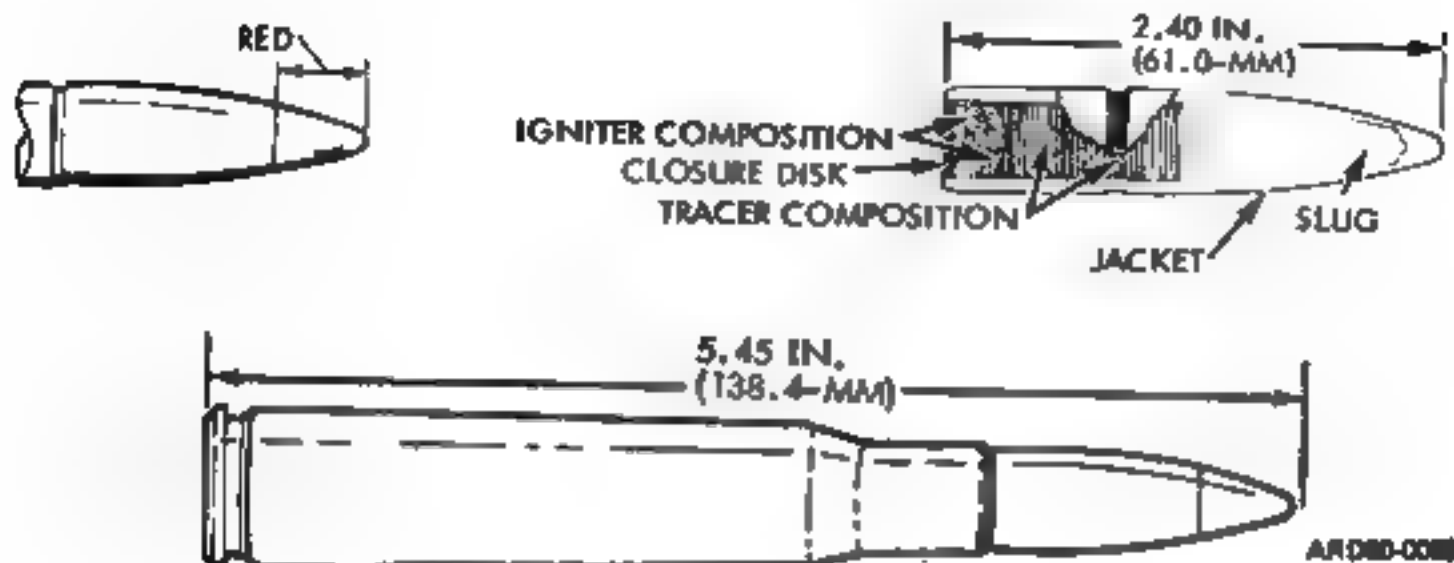
References:

TM 9-1005-211-12

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .50, TRACER, M1



Type Classification:

OB5 - MSR 11756003

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

TRACER Cartridge. The cartridge is identified by a red bullet tip.

Purpose:

The tracer is intended to permit visible observation of the bullets in-flight path or trajectory to the point of impact. Limited to CONUS for training purposes only.

Tabulated Data:

DODAC	1305-A591
Weight	1785 grain
Length	5.45 inch
Tracer	R256
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	IMR 5010
Weight	240 grain

Performance:

Chamber pressure	52,000 psi
Velocity	2700 fps,
	78 ft from
	muzzle

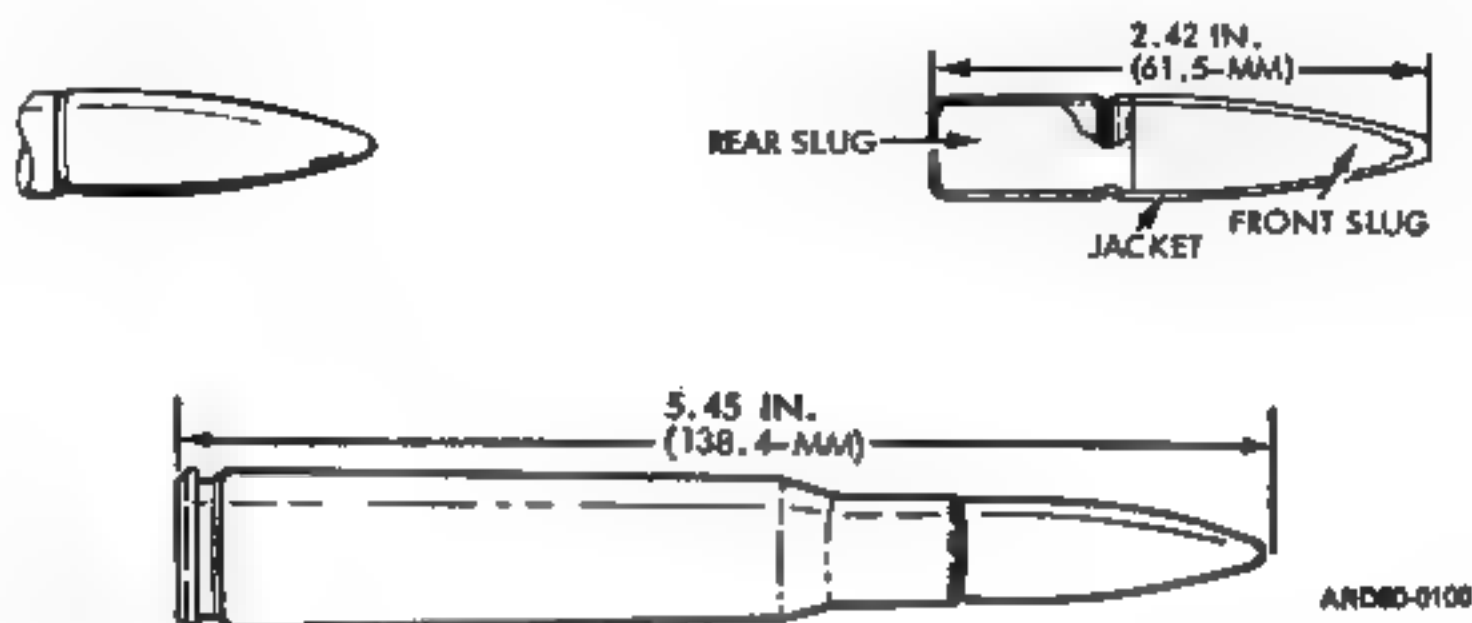
Shipping and Storage Data:

Quantity-distance class/SCG ..	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	5544843

References:

TM 9-1300-206
 TM 9-1305-200
 SB 700-20

CARTRIDGE, CALIBER .50, BALL, HIGH PRESSURE TEST, M1

Type Classification:

Std - DTCM 36841

Use:

For all Caliber .50 Weapons except M8C Spotting Gun.

Description:

HIGH PRESSURE TEST Cartridge. This cartridge is identified by a stannic-stained (silvered) cartridge case.

Purpose:

The cartridge is intended for use in proof testing Caliber .50 Weapons, except the 106-MM Spotting Rifle, during manufacture, test, or repair.

Tabulated Data:

DODAC	1305-A575
Weight	2082 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 860
Weight	240 grain

Performance:

Chamber pressure	55,000 psi
Velocity	NA

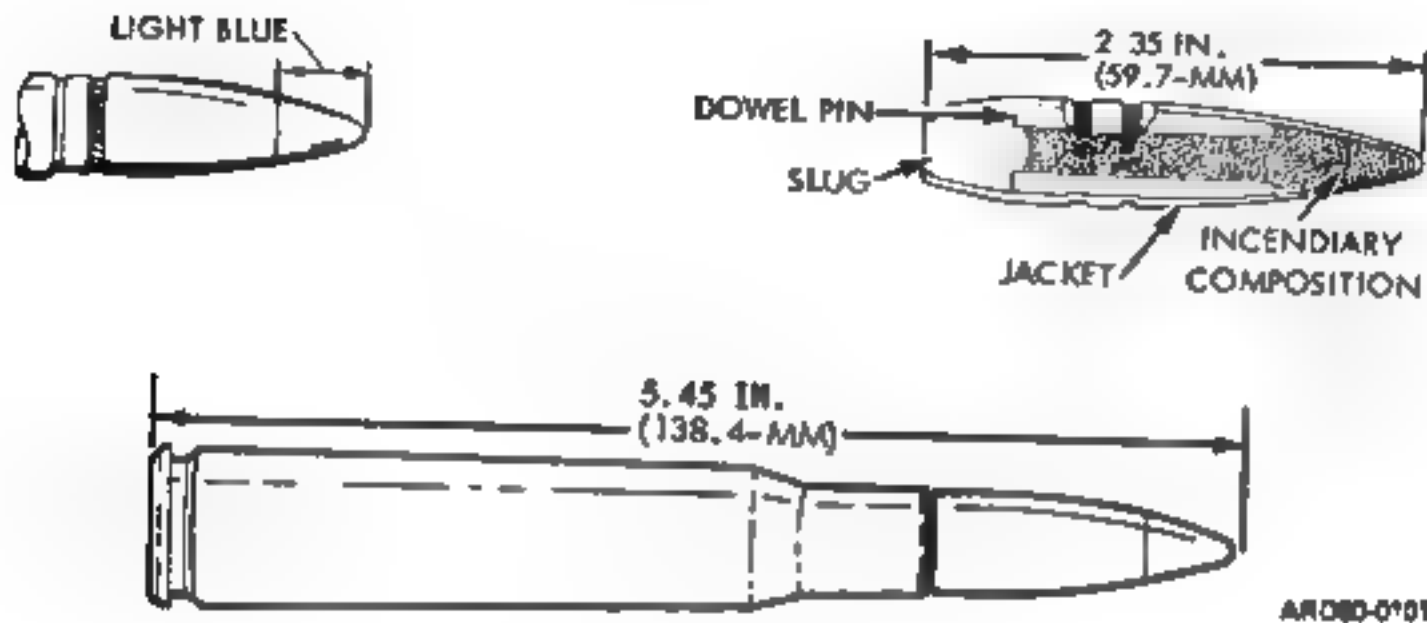
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	5544097

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, INCENDIARY, M1

Type Classification:

OBS - MSR 11756003

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

INCENDIARY Cartridge. The cartridge is identified by a blue bullet tip.

Purpose:

Upon impact with a hardened or armored target the incendiary composition bursts into flame and will ignite any flammable material.

Tabulated Data:

DODAC	1305-A562
Weight	1744 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	IM-11
Weight	34 grain

Propellant:

Type	WC 860
Weight	240 grain

Performance:

Chamber pressure	54,000 psi
Velocity	2950 fps,
	78 ft from
	muzzle

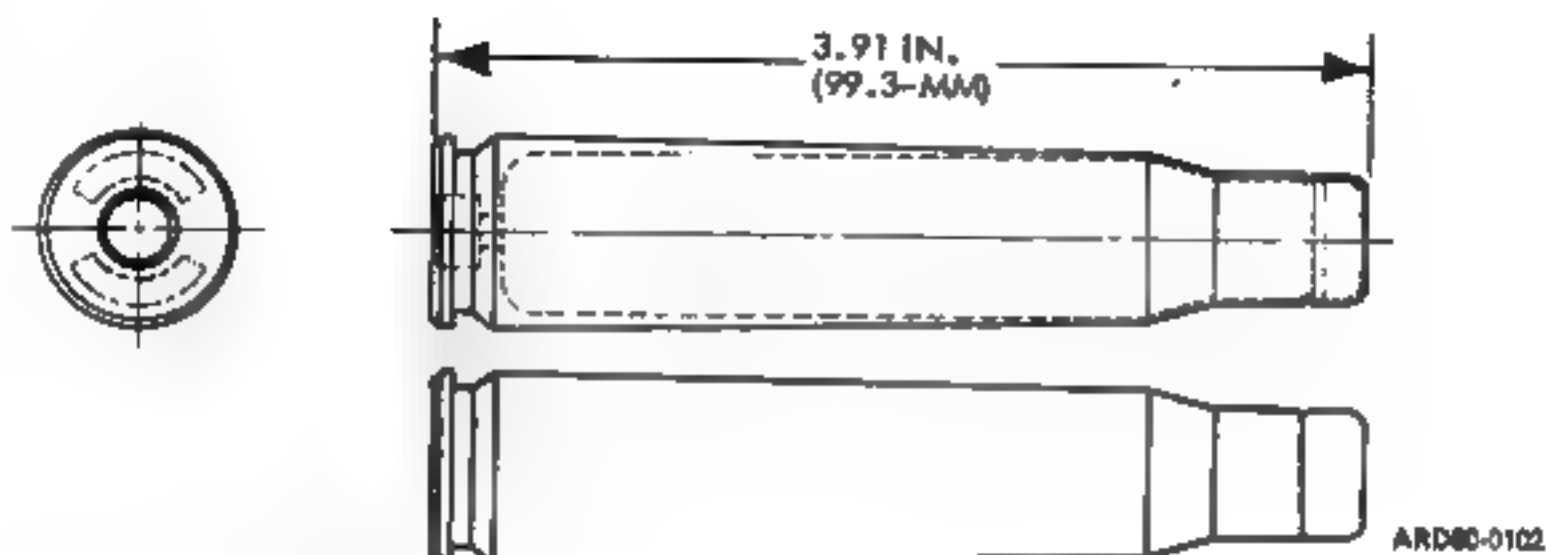
Shipping and Storage Data:

Quantity-distance class/SCG --	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	5579812

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, BLANK, M1

Type Classification:

CONT - OTCM 36841

Use:

Machine Gun, Caliber .50, M2 (Flexible only).

Description:

BLANK Cartridge. The cartridge is identified by the absence of a bullet and has a crimped cartridge case mouth.

Purpose:

This cartridge is used to simulate firing in training exercises.

Tabulated Data:

DODAC	1305-A558
Weight	917 grain
Length	3.91 inch
Tracer	■
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type WC 150

Weight 46 grain

Performance:

Chamber pressure NA

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4C

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS
AMMUNITION

Drawing number 7673517

References:

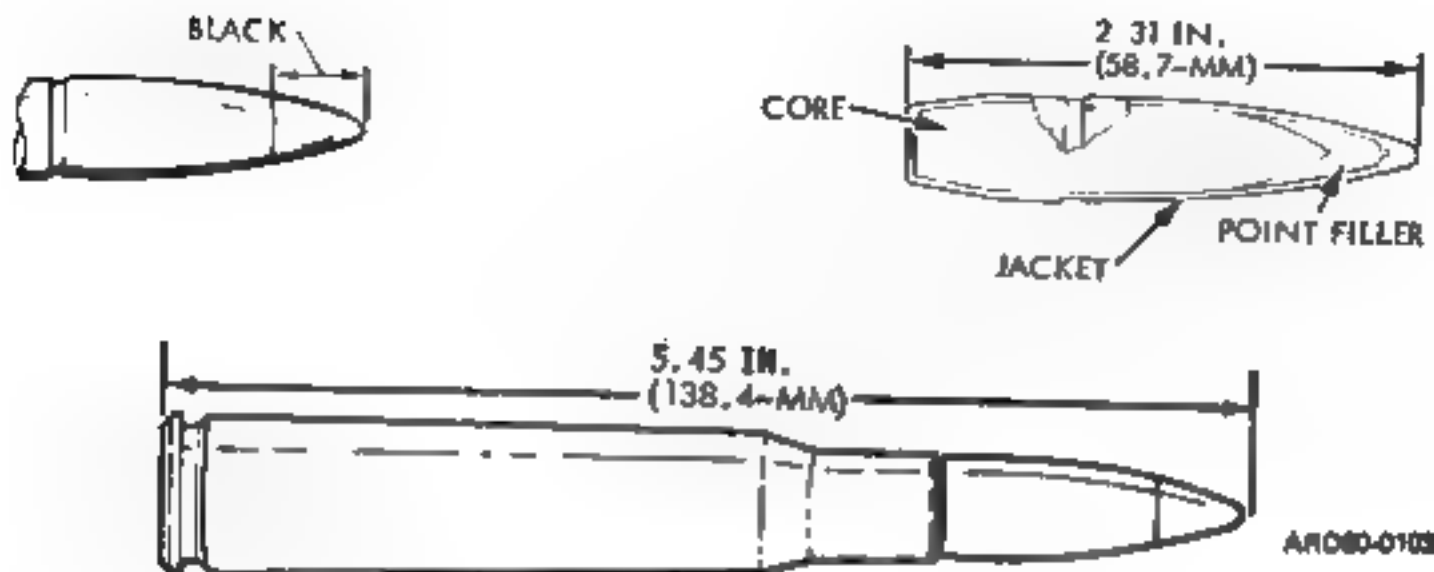
TM 9-1005-213-10

TM 9-1005-231-10

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING, M2



Type Classification:

QBS - MSR 11766003

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

ARMOR PIERCING Cartridge. The cartridge is identified by a black bullet tip.

Purpose:

This cartridge is for use against light-armored or unarmored targets; concrete shelters and similar bullet resisting targets.

Tabulated Data:

DODAC	1305-A526
Weight	1812 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	WC 860
Weight	235 grain

Performance:

Chamber pressure	53,000 psi
Velocity	2810 fps, 78 ft from muzzle

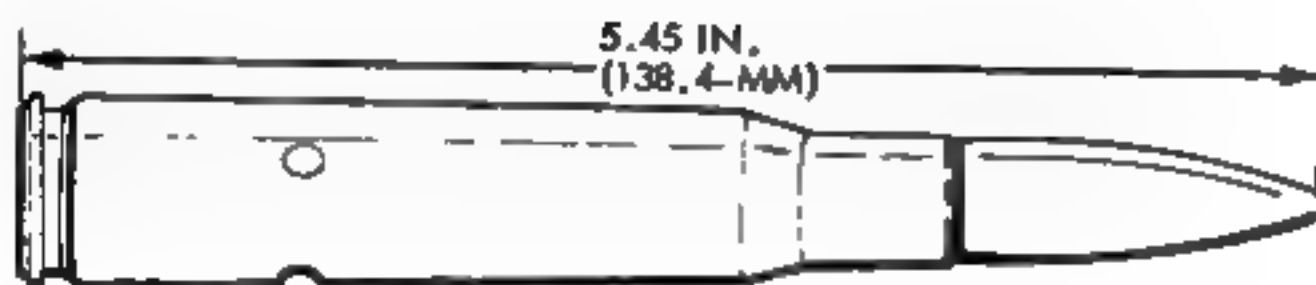
Shipping and Storage Data:

Quantity-distance class/SCB	-- 1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	5569930

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE DUMMY, CALIBER .50, M2



ARD80-0104

Type Classification:

Std - OTCM 36841

Use:

All Caliber .50 Weapons except M8C Spotting Gun.

Description:

DUMMY Cartridge. This cartridge is identified by three drilled holes in the cartridge case and the absence of a primer.

Purpose:

This cartridge is used for practice in loading for simulated firing and for inspecting and testing the mechanism of the weapon.

Tabulated Data:

DODAC	1305-A560
Weight	1248 grain
Length	5.45 inch
Tracer	NA
Primer	■
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type NA

Weight NA

Performance:

Chamber pressure NA

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- NA

Storage code NA

DOT shipping class NA

DOT designation Non-explosive
Ammunition

Drawing number 5556579

References:

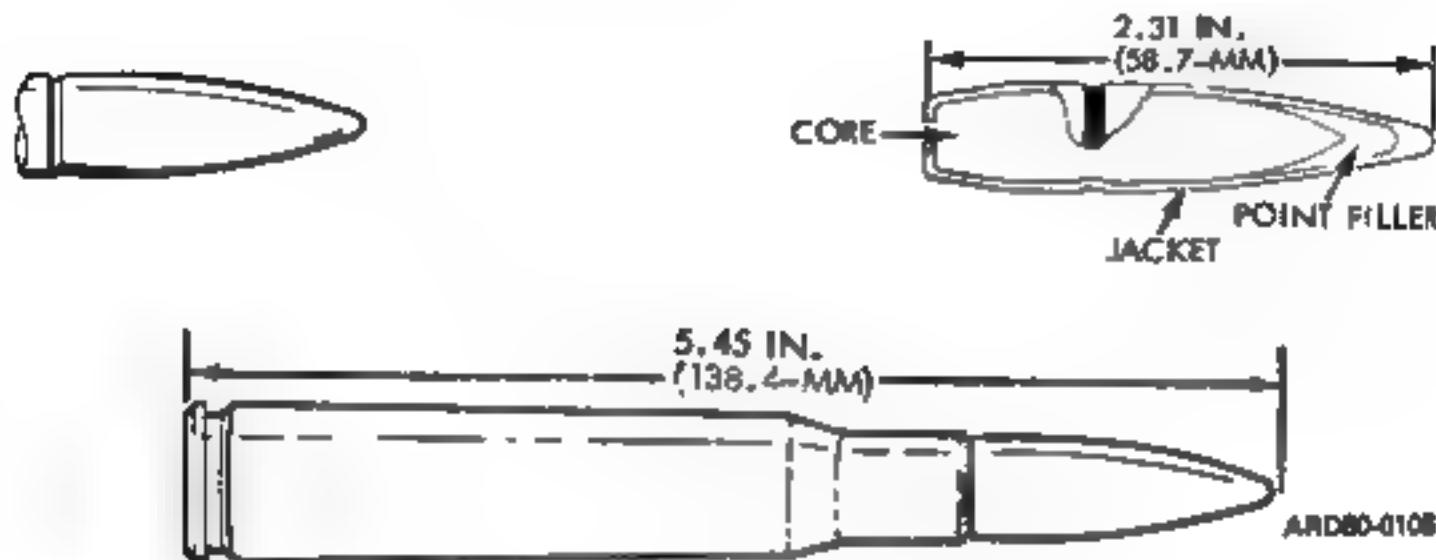
TM 9-1005-213-10

TM 9-1005-231-10

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .50, BALL, M2

Type Classification:

Std - OTCM 36841

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet.

Purpose:

The cartridge is intended for use against personnel or unarmored targets.

Tabulated Data:

DODAC	1305-A552
Weight	1813 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type MC 860

Weight 235 grain

Performance:

Chamber pressure 55,000 psi

Velocity 2810 fps,
78 ft from
muzzleShipping and Storage Data:

Quantity-distance class/SCB .. 1.4C

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS
AMMUNITION

Drawing number 5577960

References:

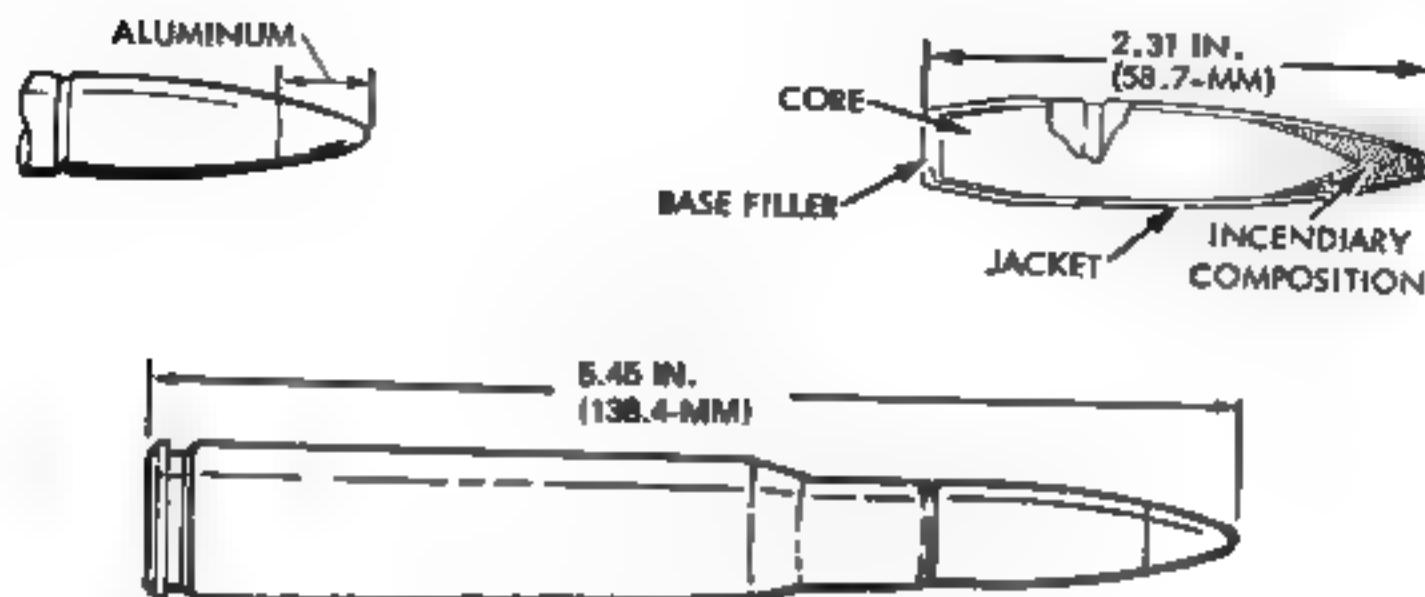
TM 9-1005-213-10

TM 9-1005-231-10

TM 9-1300-206

SB 700-20

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING INCENDIARY, M8



ARD80-0108

Type Classification:

QBS - MSR 11756003

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

ARMOR PIERCING-INCENDIARY Cartridge. This cartridge is identified by an aluminum bullet tip.

Purpose:

This cartridge combines the functions of the M2 AP bullet and the incendiary bullet, and is used against flammable targets and light-armored or unarmored targets, concrete shelters, and similar bullet-resisting targets.

Tabulated Data:

DODAC	1305-A531
Weight	1764 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	IM-11
Weight	15 grain

Propellant:

Type	WC 860
Weight	233 grain

Projectile:

Weight	622.5 grain
--------	-------------

Performance:

Chamber pressure	59,000 psi
Velocity	2910 fps, 78 ft from muzzle

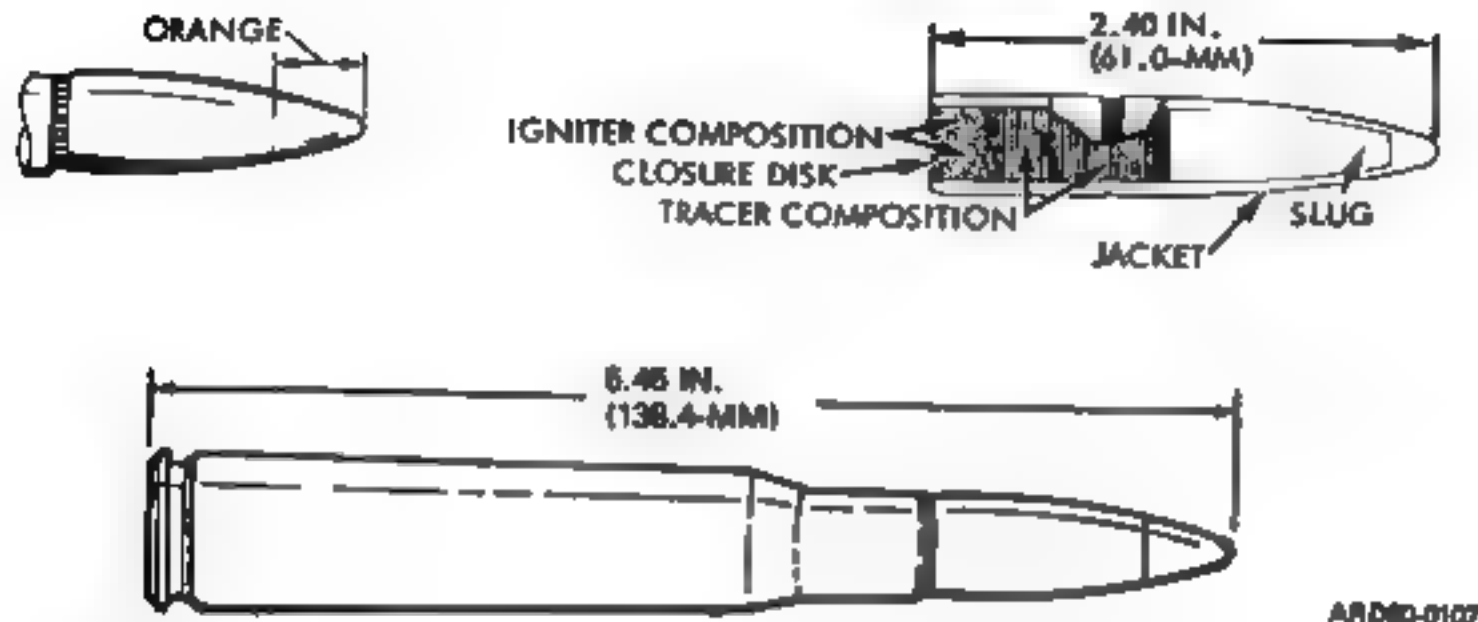
Shipping and Storage Data:

Quantity-distance class/SCG	1.4G
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7970238

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, TRACER, M10



ARDED-0107

Type Classification:

Std - OTOM 37107

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

TRACER Cartridge. This cartridge is identified by an orange bullet tip.

Purpose:

This tracer cartridge exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1600 yards from the muzzle.

Tabulated Data:

DODAC	1305-A570
Weight	1752 grain
Length	5.45 inch
Tracer	R-256
Primer	Percussion
Fuze	III
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	IMR 5010
Weight	240 grain

Performance:

Chamber pressure	54,000 psi
Velocity	2860 fps,
	78 ft from
	muzzle

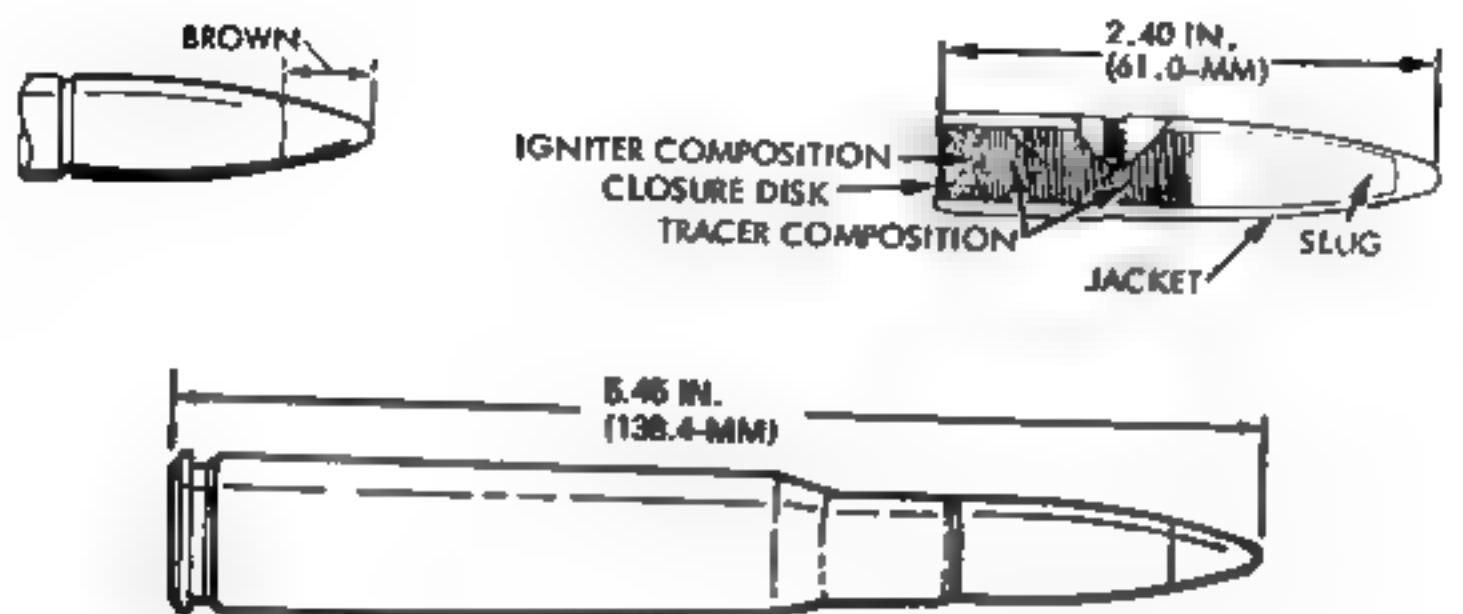
Shipping and Storage Data:

Quantity-distance class/SCB --	1.4C
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	7670296

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, TRACER, M17



AND00-0100

Type Classification:

CON - MSR 11756003

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

TRACER Cartridge. This cartridge is identified by a brown bullet tip.

Purpose:

This cartridge tracer is intended to permit visible observation of the bullets in-flight path or trajectory to the point of impact.

Tabulated Data:

DODAC	1305-A571
Weight	1732 grain
Length	5.45 inch
Tracer	R-256
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	IMR 5010
Weight	225 grain

Performance:

Chamber pressure	54,000 psi
Velocity	2860 fps, 78 ft from muzzle

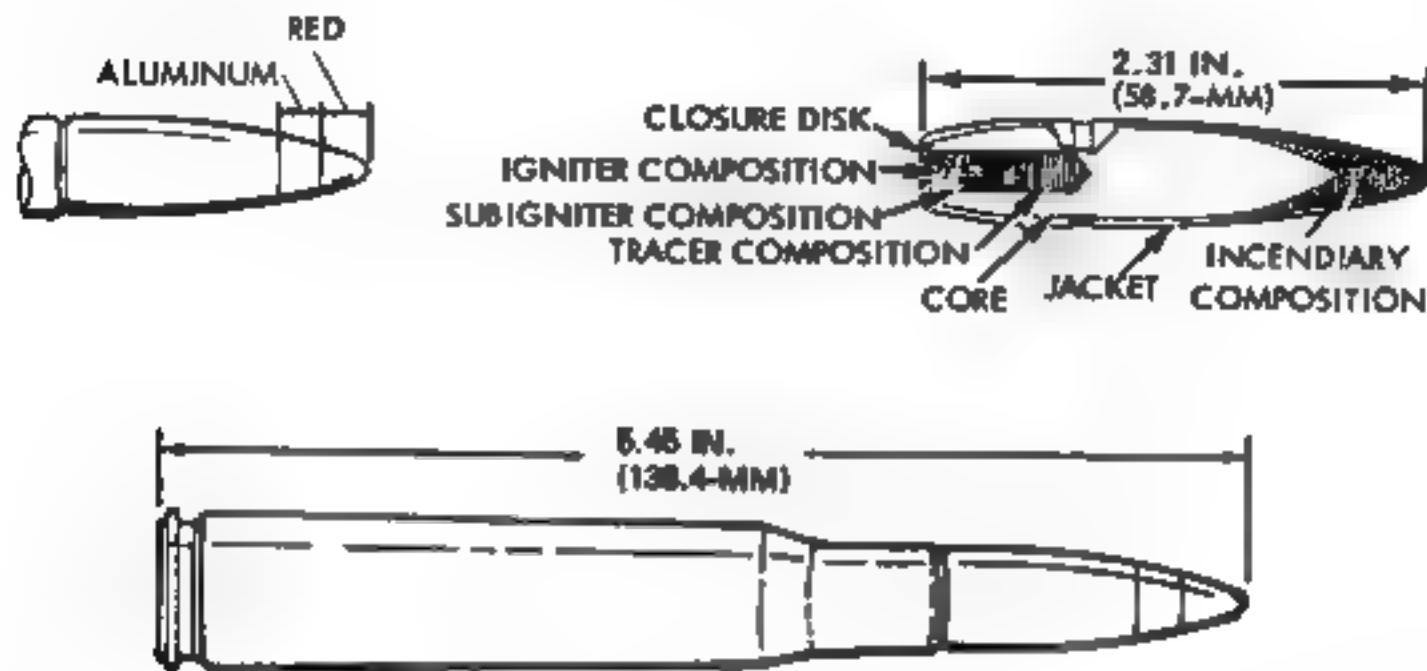
Shipping and Storage Data:

Quantity-distance class/SCG	-- 1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7672165

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
■ 700-20

CARTRIDGE, CALIBER .50, BALL, ARMOR PIERCING INCENDIARY-TRACER, M20



ARDCO-0108

Type Classification:

OBS - MSR - 04776009

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

ARMOR PIERCING-INCENDIARY-TRACER Cartridge.
This cartridge is identified by a red bullet tip with an aluminum colored ring to the rear of the red tip.

Purpose:

This cartridge combines the functions of the AP and incendiary bullet and is used against flammable targets and light-armored or un-armored targets, concrete and similar bullet-resisting targets.

Tabulated Data:

DODAC	1305-A542
Weight	1718 grain
Length	5.45 inch
Tracer	R-256
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	IM-161
Weight	27 grain

Propellant:

Type	IMR 5010
Weight	230 grain

Projectile:

Weight	619.0 grain
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Performance:

Chamber pressure	55,000 psi
Velocity	2910 fps,
	78 ft from
	muzzle

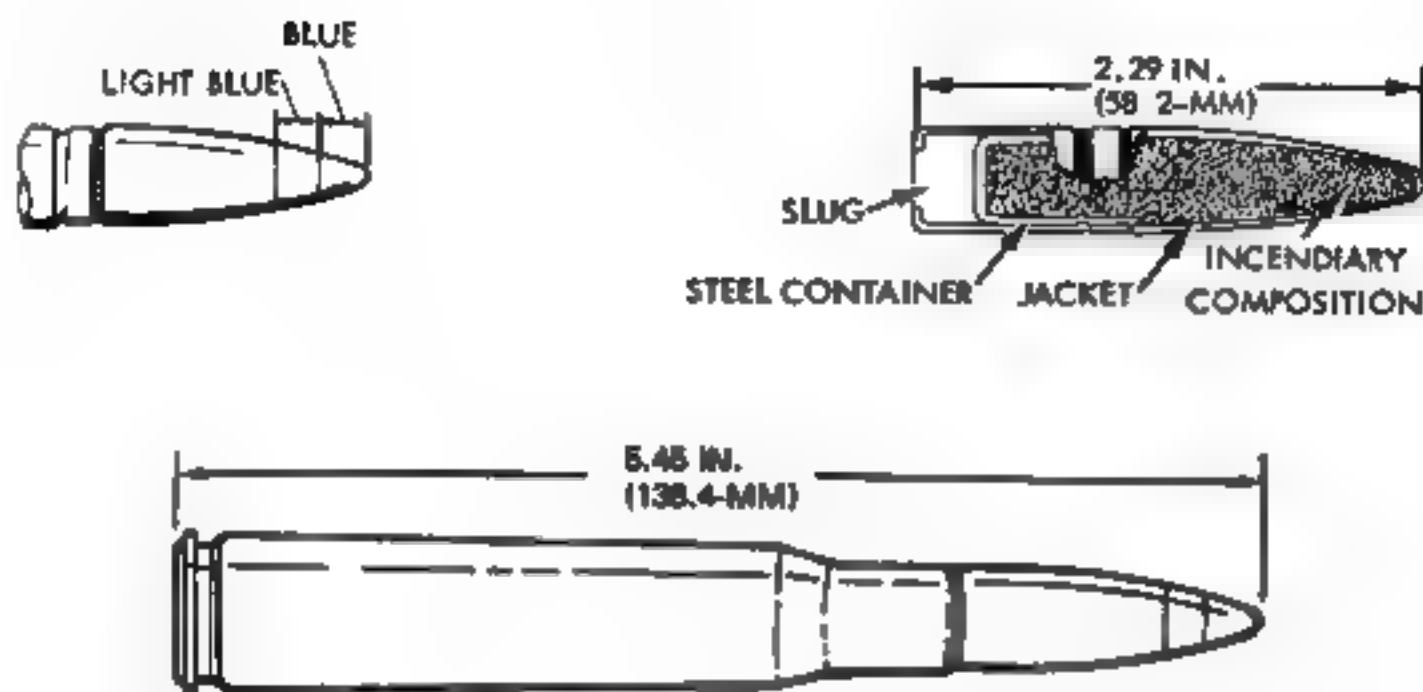
Shipping and Storage Data:

Quantity-distance class/SCG ..	1.4G
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	7672003

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .60, INCENDIARY, M23



▲ 0803-0110

Type Classification:

Std - DTCM 36841

Use:

Machine Guns, Caliber .50, M2 and MAG.

Description:

INCENDIARY Cartridge. This cartridge is identified by a blue bullet tip with a light blue ring to the rear of the blue tip.

Purpose:

This cartridge is used against flammable targets and is capable of initiating combustion of flammable materials upon target impact at 175 yards.

Tabulated Data:

DODAC	1305-A563
Weight	1581 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendary:

```

Type ..... IM 28
Weight ..... 90 grain
Propellant:
Type ..... IMR 4831
Weight ..... 237 grain

```

Performance:

Chamber pressure ----- 58,000 psi
Velocity ----- 3400 fps,
78 ft from
muzzle

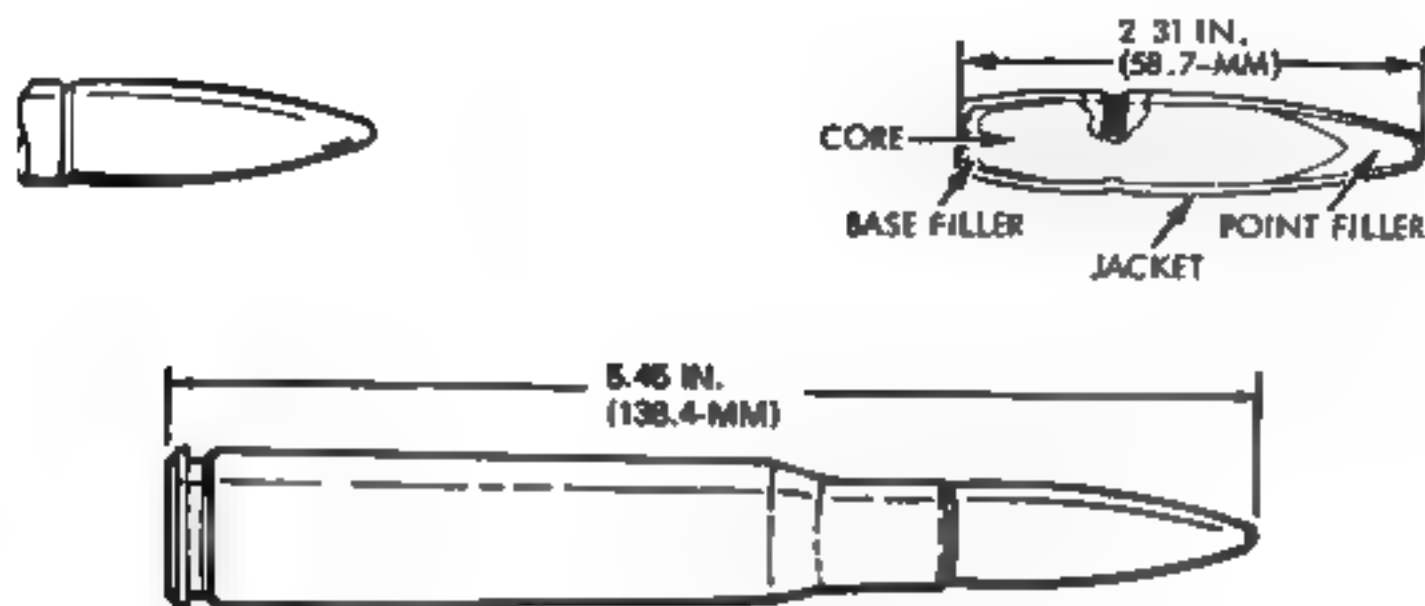
Shipping and Storage Data:

[illegible]

References:

TM 9-1005-213-10
 TM 9-1005-231-10
 TM 9-1300-206
 SA 700-20

CARTRIDGE, CALIBER .50, BALL, M33



ARDBD-0111

Type Classification:

Std - OTCM 35841

Use:

Machine Guns, Caliber .50, M2 and M85.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Purpose:

The cartridge is intended for use against personnel or unarmored targets.

Tabulated Data:

DODAC	1305-A552
Weight	1762 grain
Length	5.45 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type

Weight

Propellant:

Type WC 860

Weight 235 grain

Performance:

Chamber pressure 55,000 psi

Velocity 2910 fps,
78 ft from

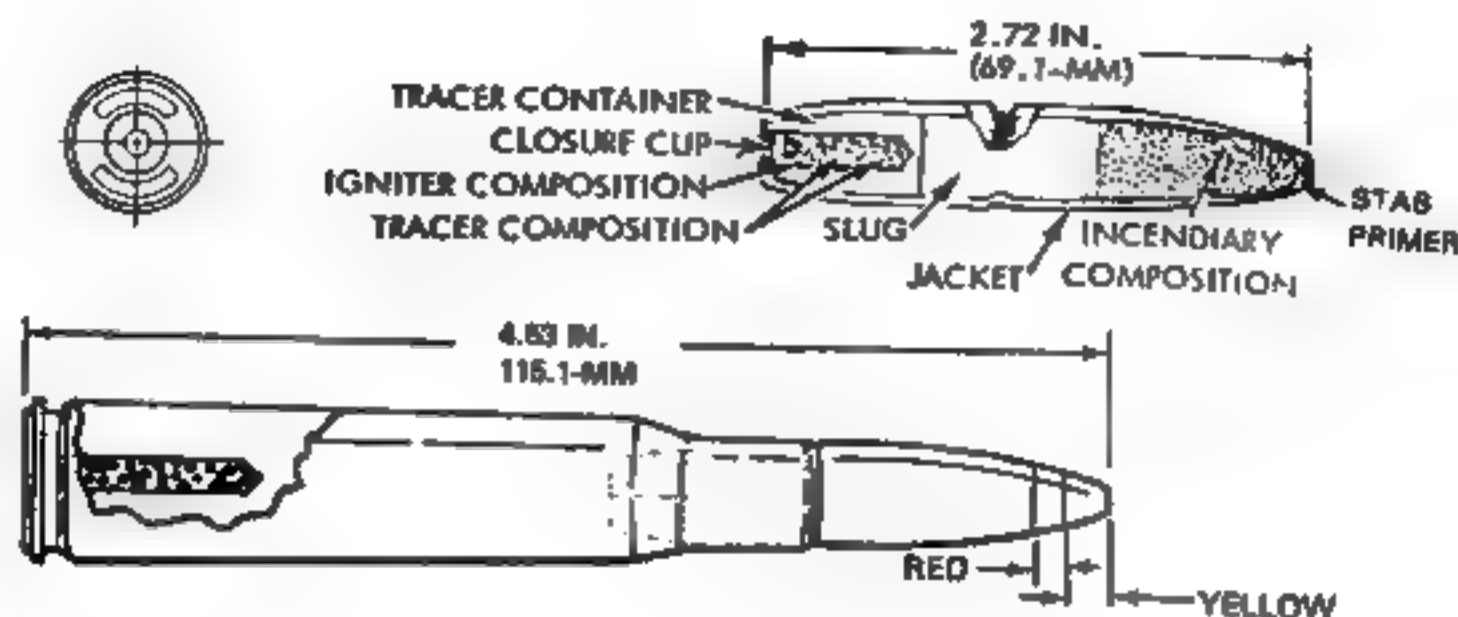
Shipping and Storage Data:

Quantity-distance class/SCB ..	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7553097

References:

TM 9-1005-213-10
TM 9-1005-231-10
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, BALL, SPOTTER-TRACER, M48A1



AND80-0112

Type Classification:

Std - AMCTC - 7378

Use:

Rifle Spotting, Cal. .50, M8C.

Description:

SPOTTER-TRACER Cartridge. This cartridge has specific features which aid in identification; the cartridge case has a distinctive body design which prevents chambering in other weapons. The total length is only 4.5 inch in comparison with 5.5 inch for a standard round. The bullet has a yellow tip with a red ring to the rear of the yellow tip.

Purpose:

In-flight the bullet exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1500 yards from the muzzle. The bullet will detonate and produce a flash and puff of smoke upon impact against a steel plate placed at 175 yards from the muzzle of the weapon at all angles from 90° to 11° with respect to the horizontal.

Difference between Models:

The M48A1 differs from the M48A2 in that a primer is in the point of the bullet in the M48A1.

Tabulated Data:

DODAC	1305-A574
Weight	1744 grain
Length	4.53 inch
Tracer	R-321
Primer	Percussion
Fuze	W
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	IM 144
Weight	32 grain
Propellant:	
Type	IMR 7383
Weight	110 grain

Performance:

Chamber pressure	38,000 psi
Velocity	1745 fps,
	78 ft from
	muzzle

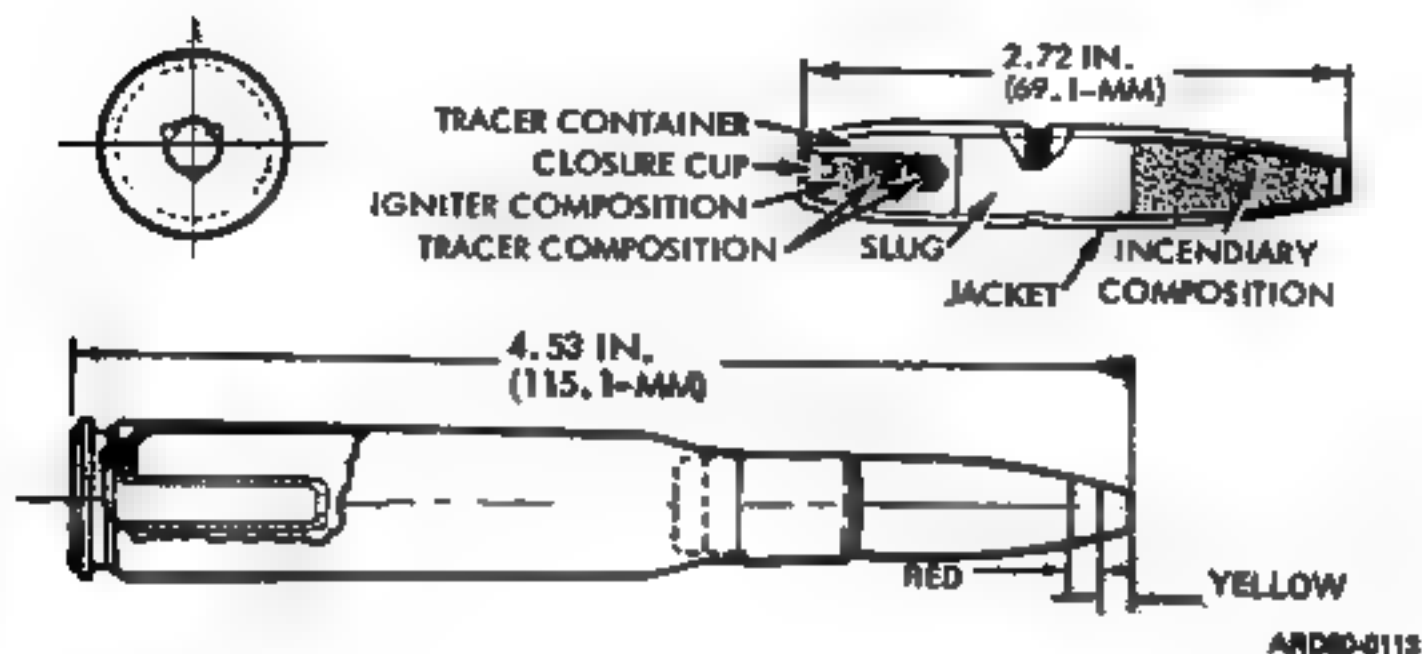
Shipping and Storage Data:

Quantity-distance class/SCG ..	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	B594735

References:

TM 9-1000-205-12
 TM 9-1300-206
 SB 700-20

CARTRIDGE, CALIBER .50, BALL, SPOTTER-TRACER, M48A2

Type Classification:

Std - AMCTC - 7378

Use:

Rifle Spotting, Cal. .50, M8C.

Description:

SPOTTER-TRACER Cartridge. This cartridge has specific features which aid in identification; the cartridge case has a distinctive body design which prevents chambering in other weapons. The total length is only 4.5 inch in comparison with 5.5 inch for a standard round. The bullet has a yellow tip with a red ring to the rear of the yellow tip.

Purpose:

In-flight the bullet exhibits a visible trace from a point not greater than 100 yards from the muzzle of the weapon to a point not less than 1500 yards from the muzzle. The bullet will detonate and produce a flash and puff of smoke upon impact against a steel plate placed at 175 yards from the muzzle of the weapon at all angles from 90° to 11° with respect to the horizontal.

Differences between Models:

The M48A2 differs from the M48A1 in that it does not have a primer in the point of the bullet.

Tabulated Data:

DODAC 1305-A574

Weight	1744 grain
Length	4.53 inch
Tracer	R-321
Primer	Percussion
Fuze	■
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	IM 144
Weight	32 grain
Propellant:	
Type	IMR 7383
Weight	110 grain
Projectile:	
Weight	833.0 grain

Performance:

Chamber pressure	38,000 psi
Velocity	1745 fps,
	78 ft from
	muzzle

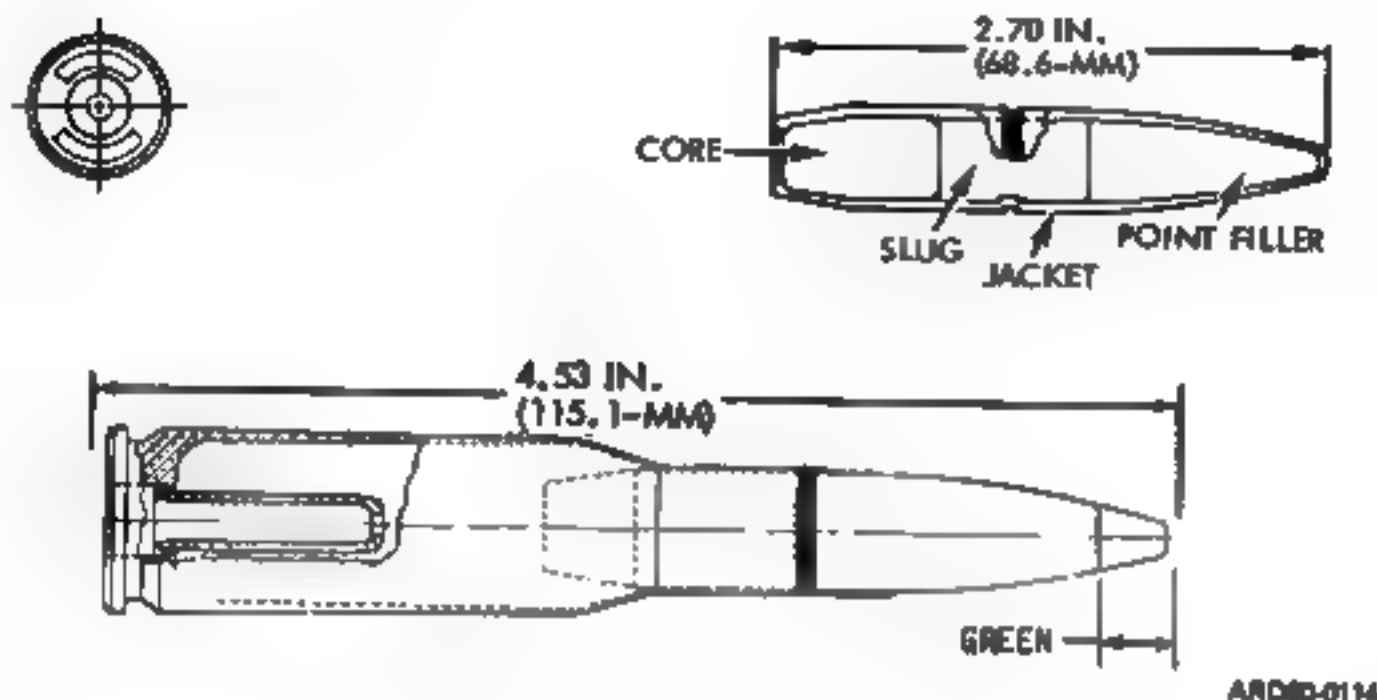
Shipping and Storage Data:

Quantity-distance class/SCB ..	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10542445

References:

TM 9-1005-205-12
TM 9-1300-206
SB 700-20

CARTRIDGE, CALIBER .50, BALL, PRACTICE, T249E2

Type Classification:

N/A

Use:

Rifle, Spotting, Caliber .50, M8C.

Description:

This cartridge is a duplicate of the M48 series cartridges, a cheaper model used for practice. It is identified by a green bullet tip. It has no tracer or incendiary filler.

Purpose:

This cartridge is used as a cheap substitute for the M48 series spotter-Tracer cartridges, this item uses a small amount of Sodium Carbonate Monohydrate as its spotting charge. This is similar to using a flour bag as a bomb.

Tabulated Data:

DODAC	1305-A579
Weight	1738 grain
Length	4.53 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	■

Incendiary:

Type	■
Weight	NA

Propellant:

Type	IMR 7383
Weight	110 grain

Projectile:

Weight	817 grain
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Performance:

Chamber pressure	38,000 psi
Velocity	1745 fps, 78 ft from muzzle

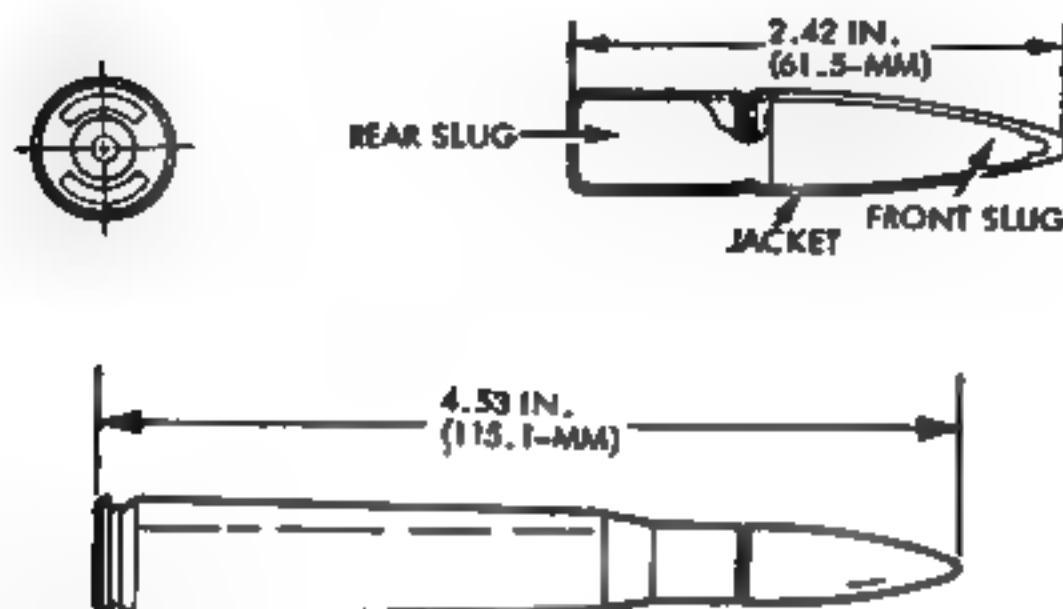
Shipping and Storage Data:

Quantity-distance class/SCB	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10534667

Reference:

TM 9-1000-205-12
TM 9-1300-206
SB 709-20

CARTRIDGE, CALIBER .50, BALL, HIGH PRESSURE TEST, T251



ARD60-0115

Type Classification:

N/A

Use:

Rifle, Spotting, Caliber .50, M8C.


Description:

Standard Small Caliber HIGH PRESSURE TEST Cartridge. This cartridge is identified by a stannic-stained (silvered) cartridge case.

Purpose:

The cartridge is used in proof testing the caliber .50 M8C Spotting Gun during manufacture, test, or repair.

Tabulated Data:

DODAC ----- 1305-A578
Weight ----- 1902 grain
Length ----- 4.53 inch
Tracer ----- NA
Primer ----- Percussion
Fuze ----- 
Explosive:
Type ----- NA
Weight ----- NA

Incendiary:

Type ----- NA
Weight ----- NA

Propellant:

Type ----- IMR 4831
Weight ----- 142 grain

Performance:

Chamber pressure ----- 55,000 psi
Velocity ----- NA

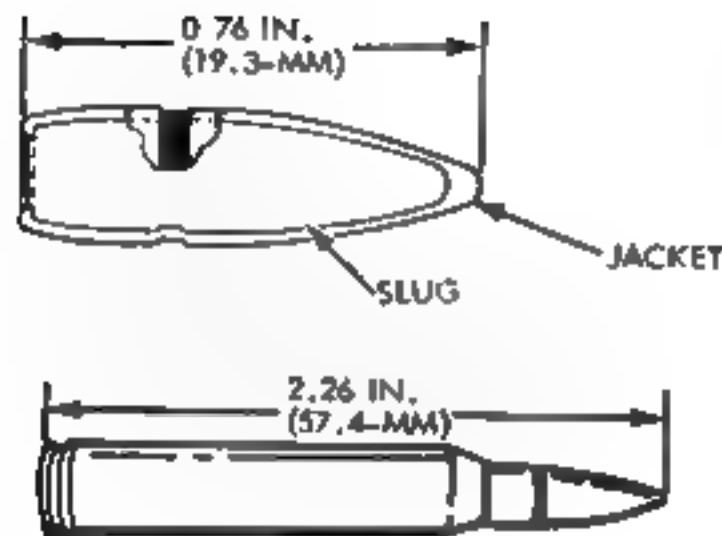
Shipping and Storage Data:

Quantity-distance class/SCB -- 1.4C
Storage code ----- Class V
DOT shipping class ----- C
DOT designation ----- SMALL ARMS
AMMUNITION
Drawing number ----- 10534770

References:

TM 9-1000-205-12
TM 9-1300-206
SB 700-20

CARTRIDGE, 5.56-MM, BALL, M193



ANDSD-0116

Type Classification:

Std - AMCTC 5143

Use:

Rifle, 5.56-MM, M16 and M16A1

Description:

BALL Cartridge. This cartridge is identified by a plain bullet tip.

Purpose:

The cartridge is intended for use against personnel and unarmored targets.

Tabulated Data:

DODAC	1305-A066
Weight	182 grain
Length	2.26 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA

Weight	NA
Propellant:	
Type	WC 844 or CMR-170
Weight	28.5 grain or 26.5 grain
Projectile:	
Weight	56.0 grain

Performance:

Chamber pressure	52,000 psi
Velocity	3250 fps, 15 ft from muzzle

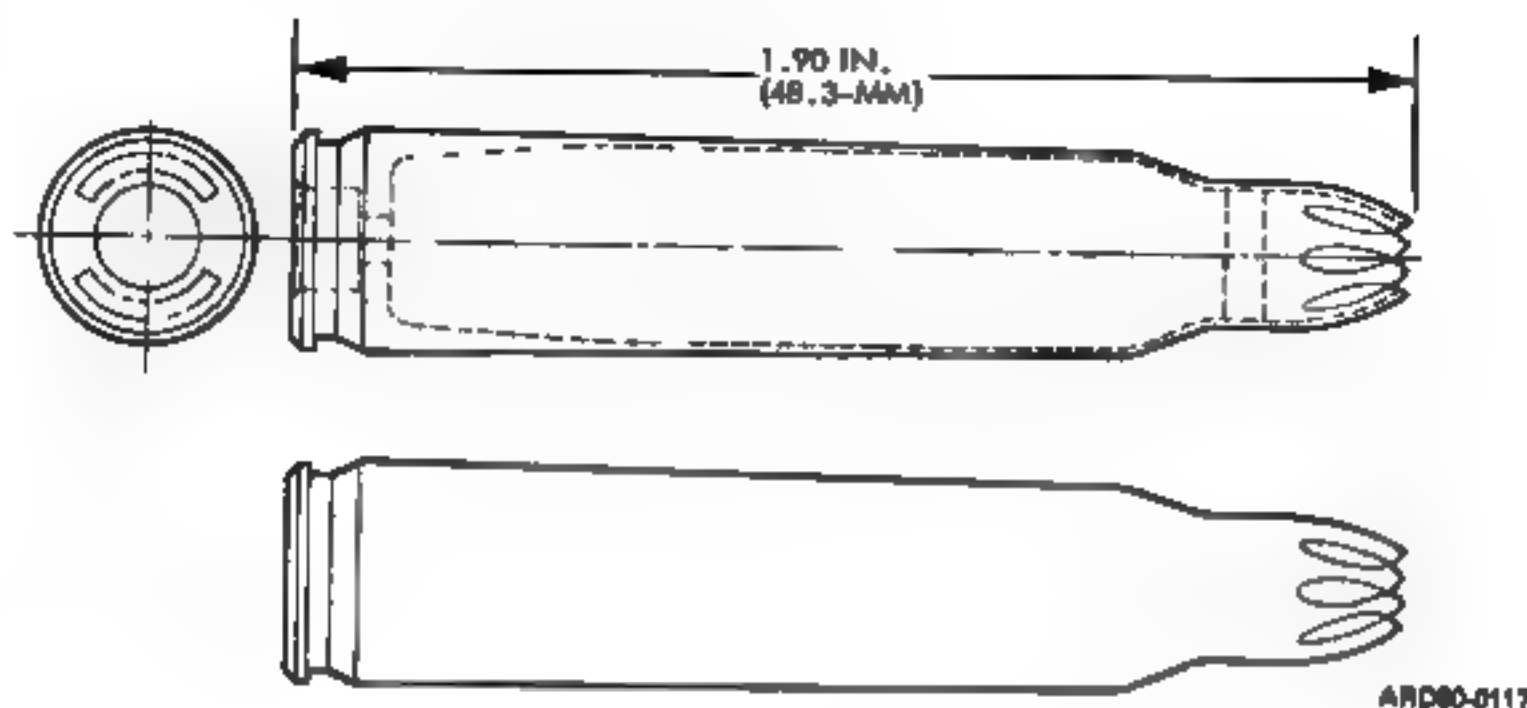
Shipping and Storage Data:

Quantity-distance class/SCG	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10523632

References:

TM 9-1005-249-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 5.56-MM, GRENADE, M195

Type Classification:

Std - AMCTC 6919

Use:

Rifle, 5.56-MM, M16 and M16A1 with launcher M234.

Description:

GRENADE Cartridge. This cartridge is identified by a rose-petal (rosette crimp) closure of the cartridge case mouth sealed with yellow lacquer.

Purpose:

The cartridge provides pressure, on functioning, to project grenades to a desired target using a grenade projection adapter.

Tabulated Data:

DODAC 1305-6841
 Weight 126 grain
 Length 1.90 inch
 Tracer NA
 Primer Percussion
 Fuze NA
 Explosive:
 Type NA
 Weight NA

Incendiary:

Type ☒
 Weight NA
 Propellant:
 Type IMR 4473
 Weight 25 grain

Performance:

Chamber pressure ☒
 Velocity 140/165 fps,
 5 ft 6 in. from
 muzzle for
 projected
 grenade

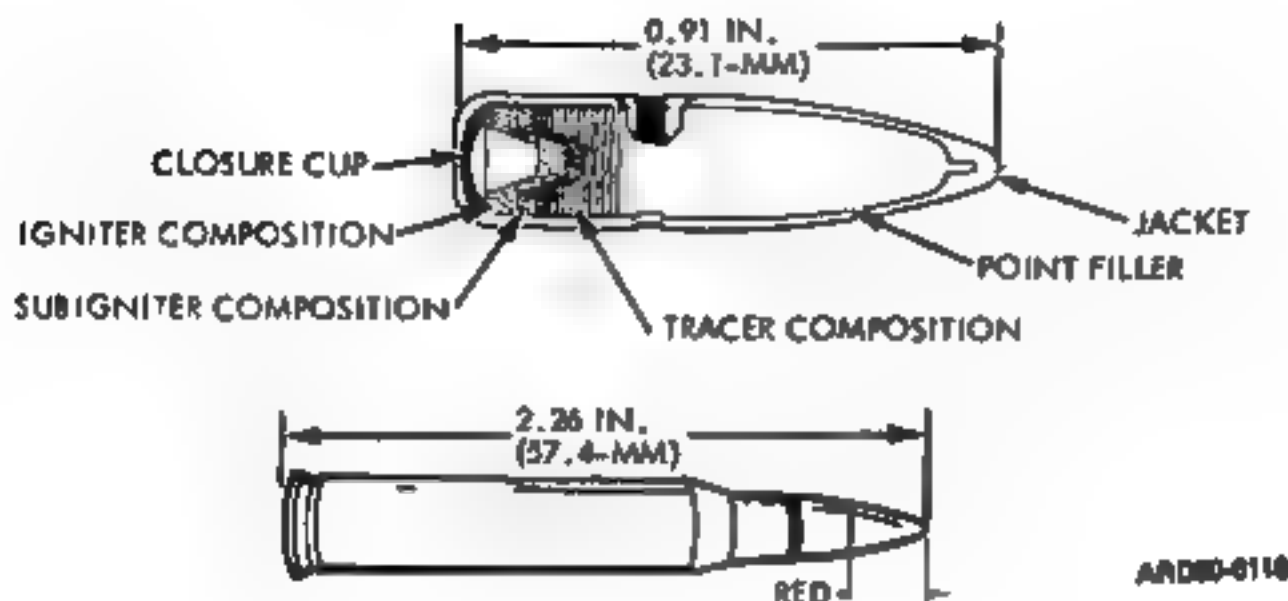
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S
 Storage code Class V
 DOT shipping class C
 DOT designation SMALL ARMS
 AMMUNITION
 Drawing number 10534926

References:

TN 9-1005-249-10
 TN 9-1300-206
 SB 700-20

CARTRIDGE, 5.56-MM, TRACER, M196



Type Classification:

Std - AMCTC 5055

Use:

Refle, 5.56-MM, M16 and M16A1.

Description:

TRACER Cartridge. This cartridge is identified by a red bullet tip.

Purpose:

The tracer is intended to permit visible observation of the bullets in-flight path or trajectory to the point of impact.

Tabulated Data:

DODAC	1305-A068
Weight	177 grain
Length	2.26 inch
Tracer	R-284
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA

Weight	NA
Propellant:	
Type	WC 844 or IMR 8208M
Weight	28.6 grain, 25.3 grain or CMR-170 28.5 grain
Projectile:	
Weight	54.0 grain

Performance:

Chamber pressure	52,000 psi
Velocity	3200 fps, 15 ft from muzzle

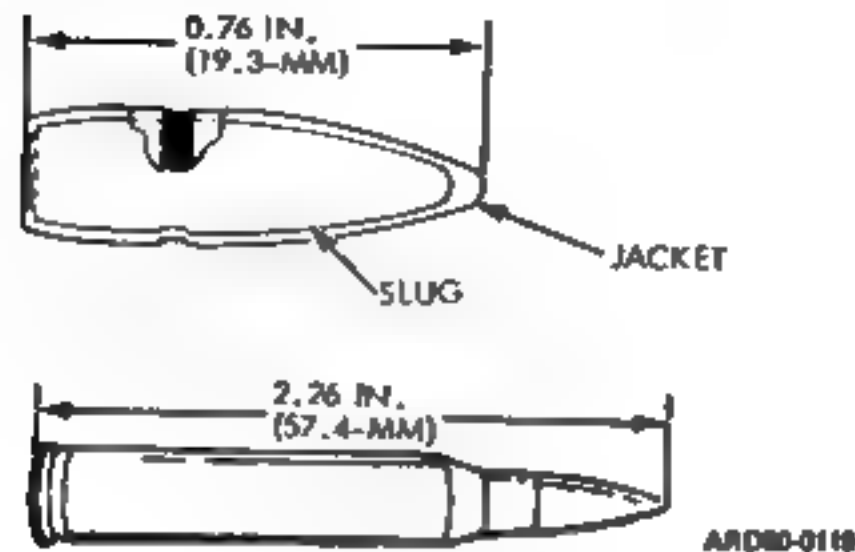
Shipping and Storage Data:

Quantity-distance class/SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS DEFINITION
Drawing number	10534193

References:

TM 9-1005-249-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 5.56-MM, HIGH PRESSURE TEST, M197

Type Classification:

Std - AMCTC 4484

Use:

Rifle, 5.56-MM, M16 and M16A1.

Description:

HIGH PRESSURE TEST Cartridge. This cartridge is identified by a stannic-stained (silvered) or nickel plated cartridge case.

Purpose:

This cartridge is loaded with a special propellant to produce pressures substantially in excess of the service round. It is used to proof test weapons during manufacture, test, or repair.

Tabulated Data:

DODAC 1305-A070
 Weight 174 grain
 Length 2.26 inch
 Tracer NA
 Primer Percussion
 Fuze NA
 Explosive:
 Type NA
 Weight NA

Incendiary:

Type NA

Weight NA

Propellant:

Type SR 7641

Weight 16.7 grain

Projectile:

Weight 174.0 grain

Performance:

Chamber pressure 70,000 psi

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4S

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS

Drawing number 10533839

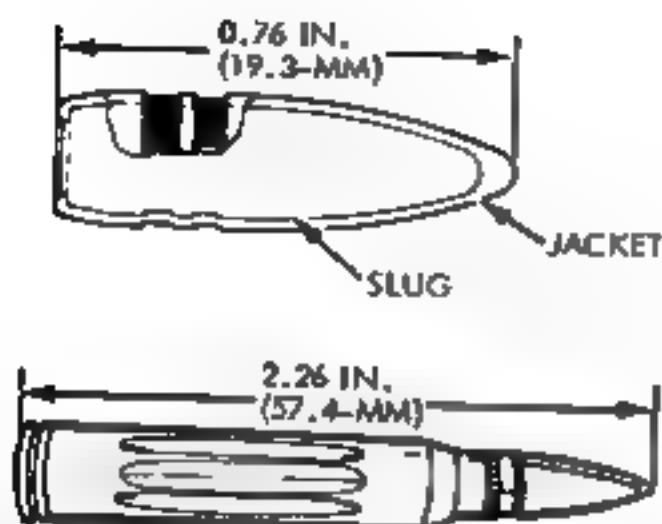
References:

TM 9-1005-249-10

TM 9-1300-206

SB 700-20

CARTRIDGE, DUMMY 5.56-MM, M199



ARD80-0120

Type Classification:

Std - AMCTC 4562

Use:

Rifle, 5.56-MM, M16 and M16A1.

Description:

DUMMY Cartridge. This cartridge is identified by six longitudinal corrugations (flutings) in the cartridge case, in addition there is no primer.

Purpose:

This cartridge is used for practice in loading 5.56-MM weapons, for simulated firing to detect flinching of personnel when firing and for inspecting and testing the weapon mechanisms.

Tabulated Data:

DODAC	1305-A060
Weight	150 grain
Length	2.26 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- NA

Weight ----- NA

Performance:

Chamber pressure ----- NA

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SC6 -- NA

Storage code ----- NA

DOT shipping class ----- NA

DOT designation ----- Non-explosive

Ammunition

Drawing number ----- 10534021

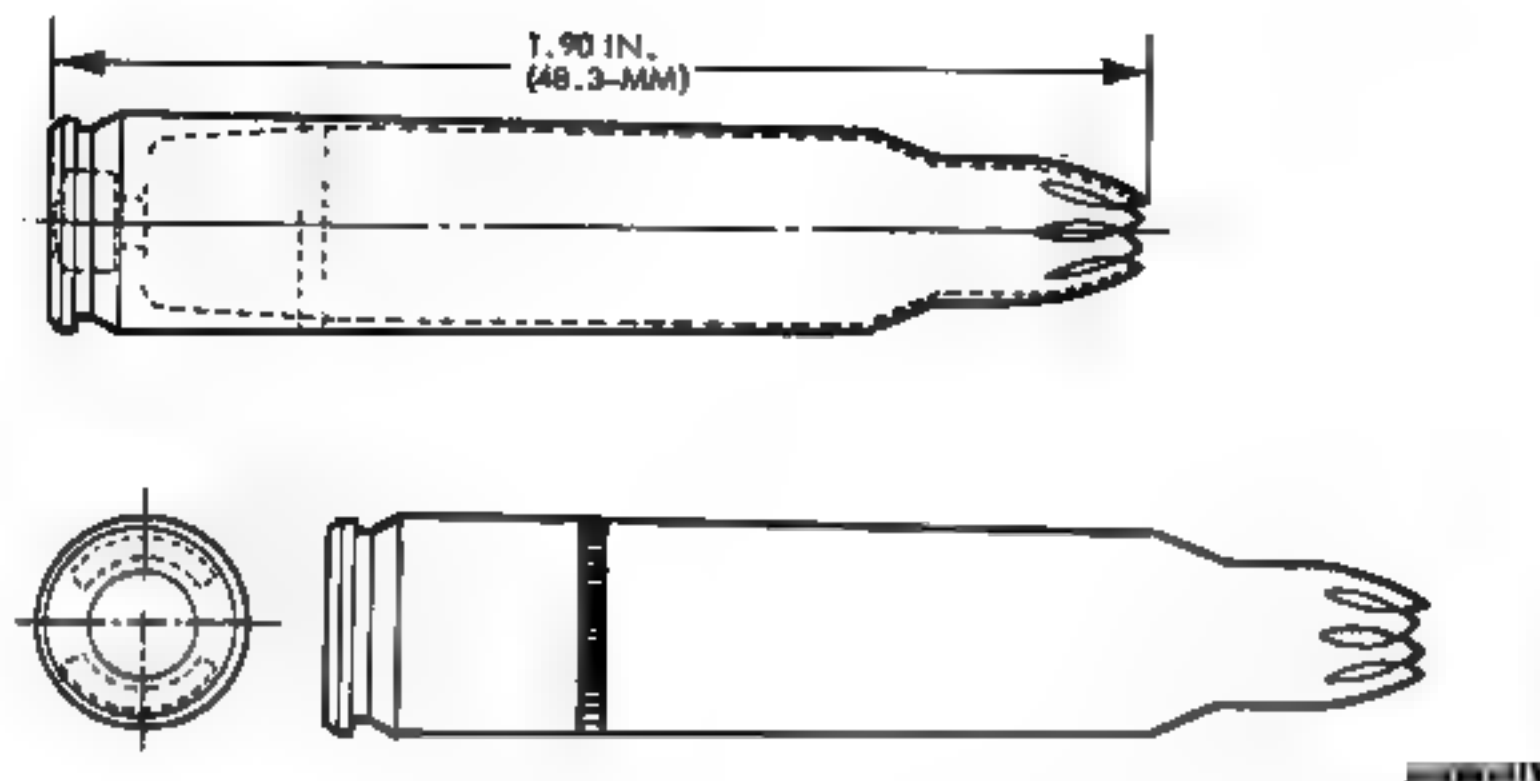
References:

TM 9-1005-249-10

TM 9-1300-206

SB 700-20

CARTRIDGE, 5.56-MM, BLANK, M200

Type Classification:

Std - AMCTC 5942

Use:

Rifle, 5.56-MM, M16 and M16A1.

Description:

BLANK Cartridge. The cartridge is identified by a rose-petal (rosette crimp) closure of the cartridge case mouth. In addition, an engraved knurl is located 1/2 inch from the head of the cartridge case.

Purpose:

This cartridge is designed for simulated firing in training exercises and for saluting purposes.

Tabulated Data:

DODAC	1305-A080
Weight	107 grain
Length	1.90 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- MPC 13

Weight ----- 7 grain

Performance:

Chamber pressure ----- NA

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.45

Storage code ----- Class V

DOT shipping class ----- C

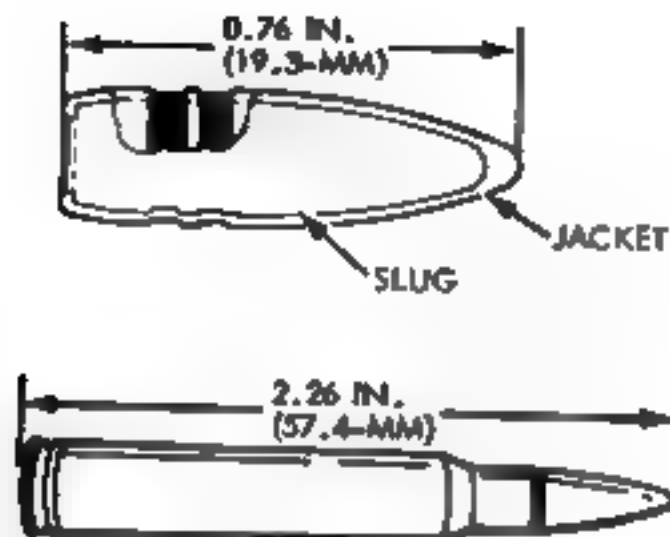
DOT designation ----- SMALL ARMS

Drawing number ----- 10542379

References:

TM 9-1005-249-10
 TM 9-1300-206
 SB 700-20

CARTRIDGE DUMMY, 5.56-MM, M232



ARDBD-0122

Type Classification:

Std - AMCTC 4485

Use:

Rifle, 5.56-MM, M16 and M16A1,

Description:

DUMMY Cartridge. The cartridge is identified by a black chemical finish over the entire round and the absence of a primer.

Purpose:

This cartridge is an inert round used for testing the mechanisms of 5.56 weapons.

Tabulated Data:

DODAC	1305-A069
Weight	161 grain
Length	2.26 inch
Tracer	NA
Primer	NA
Fuze	NA

Explosive:

Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

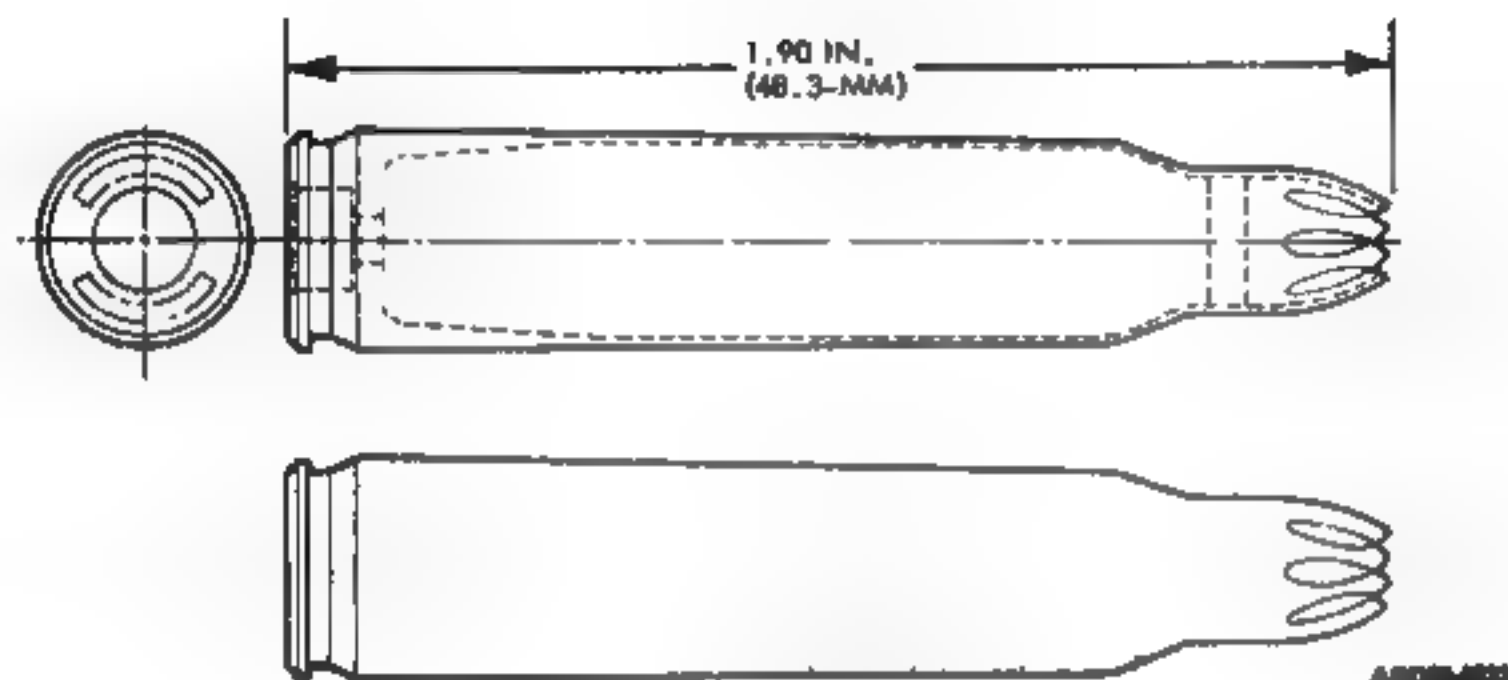
Shipping and Storage Data:

Quantity-distance class/SCB	NA
Storage code	NA
DOT shipping class	NA
DOT designation	Non-explosive Ammunition
Drawing number	10534146

References:

TN 9-1005-249-10
TN 9-1300-206
SB 700-20

CARTRIDGE, 5.56MM; BLANK, M755

Type Classification:

Std. MSR 04786005

Use:

The M755 blank cartridge is especially designed for use with the Sting Ring Airfoil Munition System which consists of the M234 launcher and the 64mm Riot Control M743 Projectile fired from the M16A1 rifle.

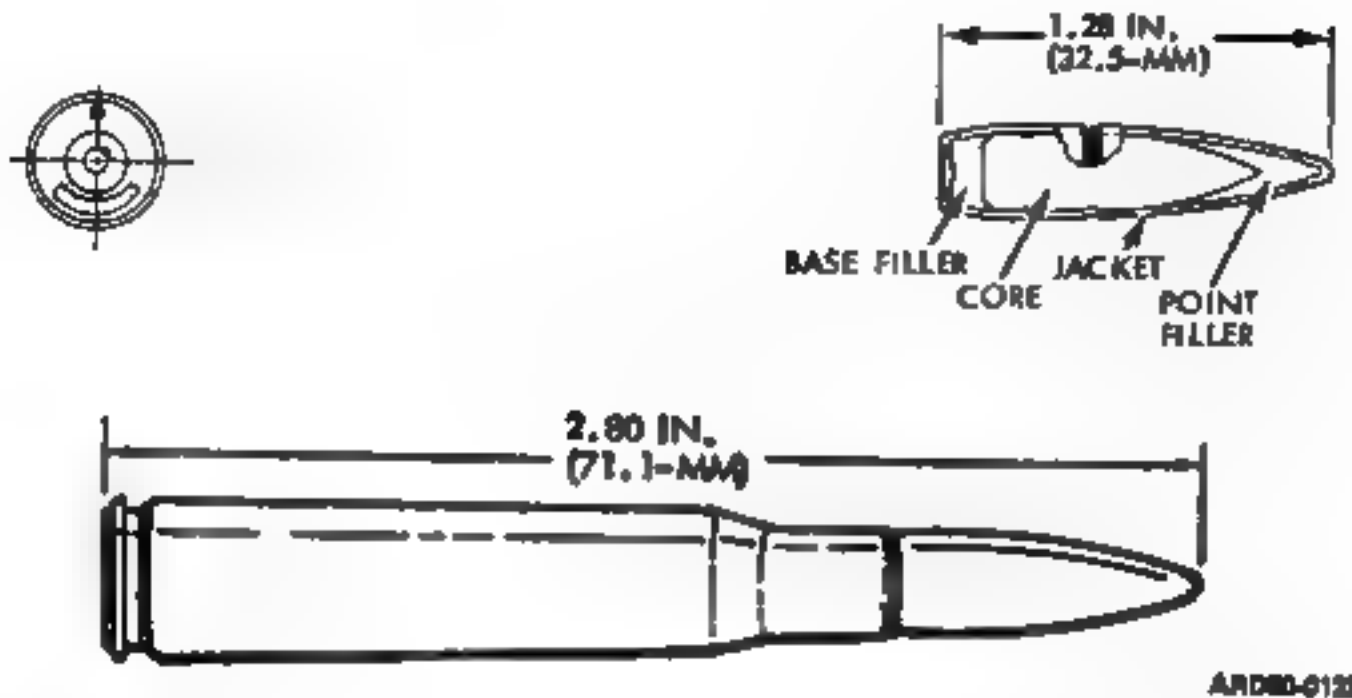
Description:

The Cartridge, 5.56mm: Blank, M755 is only for use with the M234 riot control 64 millimeter projectile launcher. The

launcher is attached to the flash suppressor of the M16A1 rifle and actuated by firing an M755, 5.56mm blank cartridge. The M755 blank cartridge is the only cartridge that will give the projectile M743 the proper velocity. Use of other blank cartridges may damage the system.

The cartridge is loaded with 12 grains of Dupont Hi Skor 700X propellant closed with a seven petal nose crimp and moisture sealed. The crimped tips of the cartridge is painted with yellow lacquer for identification and thus lessen the chance of mixing them with the standard M16A1 rifle blank cartridges.

CARTRIDGE, 7.62-MM, BALL, M59



Type Classification:

Std - OTCM 36841

Use:

Machine Guns, 7.62-MM, M60 and M219; Rifle 7.62-MM, M14.

Description:

BALL Cartridge. The cartridge is identified by a plain bullet tip.

Purpose:

The cartridge is intended for use against personnel and unarmored targets.

Tabulated Data:

DODAC	1305-A143
Weight	393 grain
Length	2.80 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	NC 846
Weight	46 grain

Projectile:

Weight ----- 150.6 grain

Performance:

Chamber pressure	50,000 psi
Velocity	2760 fps, 78 ft from muzzle

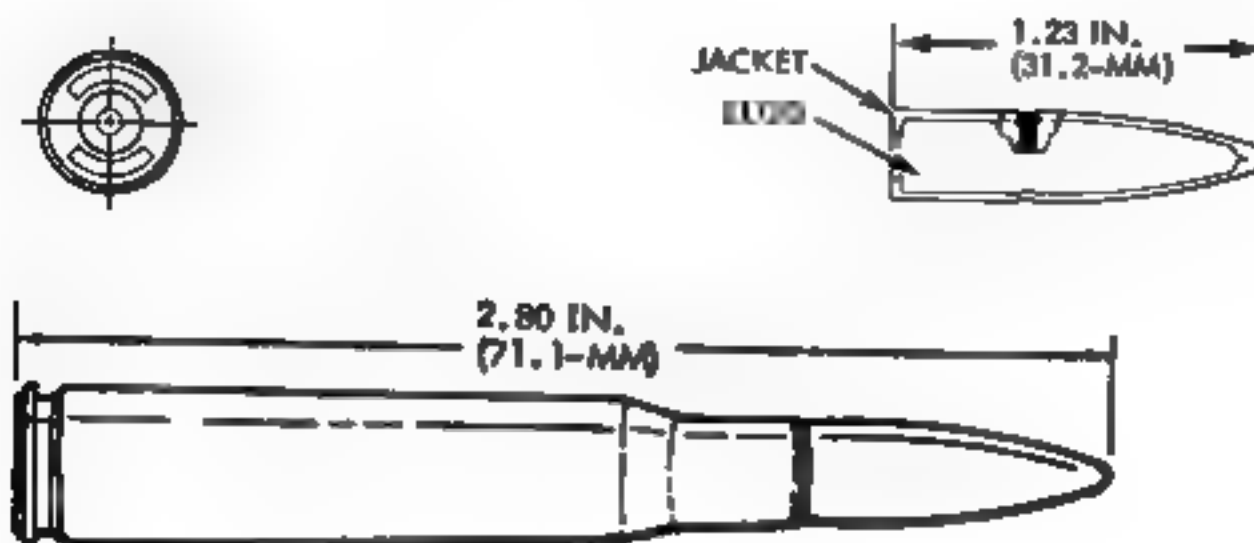
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS MUNITION
Drawing number	7553702

References:

TM 9-1005-223-10
TM 9-1005-223-12P
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, HIGH PRESSURE TEST, M60



Type Classification:

OS - MSR-11756003

Use:

All 7.62-MM Weapons.

Description:

HIGH PRESSURE TEST Cartridge. The cartridge is identified by a stannic-stained (silvered) case.

Purpose:

The cartridge is loaded with a special propellant to produce pressures substantially in excess of the service cartridge; the cartridge is not for field issue, but is used for proof firing of weapons during manufacture, test, or repair.

Tabulated Data:

DODAC	1305-A129
Weight	412 grain
Length	2.80 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type IMR 4475

Weight 41 grain

Projectile:

Weight 171.5 grain

Performance:

Chamber pressure 67,500 psi

Velocity NA

Shipping and Storage Data:

Quantity-distance class/SCG - 1.45

Storage code Class V

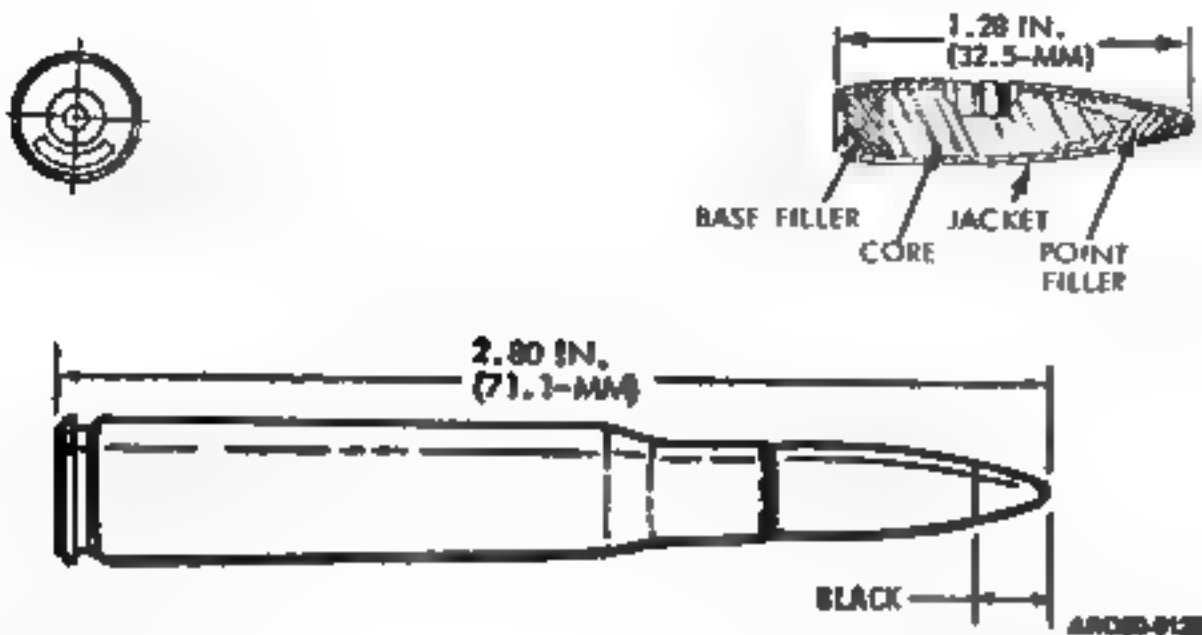
DOT shipping class C

DOT designation SMALL ARMS
AMMUNITION

Drawing number 7553703

References:

TM 9-1005-223-10
TM 9-1005-223-12P
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, ARMOR PIERCING, M61Type Classification:

OBS - MSR - 11756003

Use:Machine Guns, 7.62-MM, M60, M219 and M240;
Rifle, 7.62-MM, M14.Description:

ARMOR PIERCING Cartridge. The cartridge is identified by a black bullet tip.

Purpose:

Used in rifles and machine guns against personnel and light armored or unarmored targets, concrete shelters and similar bullet-resisting targets.

Tabulated Data:

DODAC	1305-A120
Weight	393 grain
Length	2.80 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	IMR 4475
Weight	41 grain

Projectile:

Weight	150.5 grain
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Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps, 78 ft from muzzle

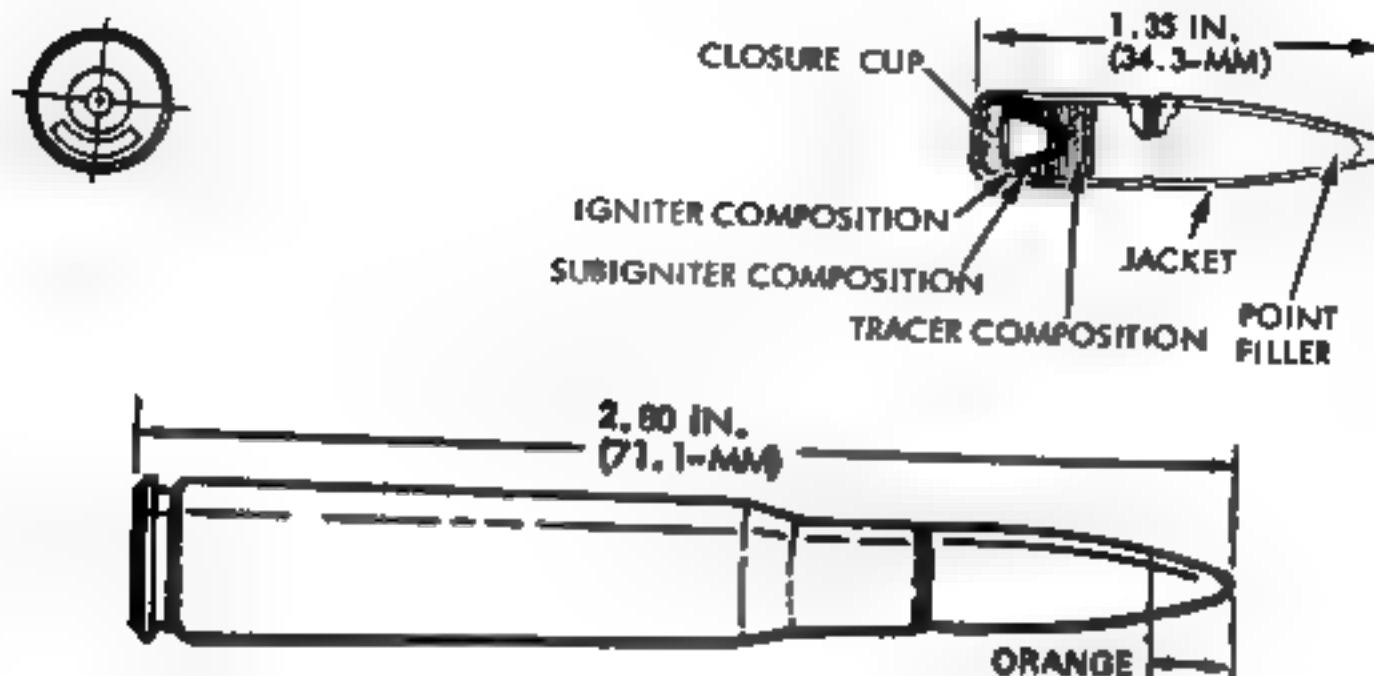
Shipping and Storage Data:

Quantity-distance class/SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7653704

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-20
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, TRACER, M62



ARDBD-0126

Type Classification:

CON - MSR 11756003

Use:Machine Guns, 7.62-MM, M60, M219 and M240;
Rifle, 7.62-MM, M14.Description:TRACER Cartridge. The cartridge is identified by an orange bullet tip.Purpose:

The tracer is intended to permit visible observation of the bullets in-flight path or trajectory to the point of impact.

Tabulated Data:

DODAC	1305-A124
Weight	383 grain
Length	2.80 inch
Tracer	R-284
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	WC 846
Weight	46 grain
Projectile:	
Weight	142 grain

Performance:

Chamber pressure	50,000 psf
Velocity	2750 fps, 78 ft from muzzle

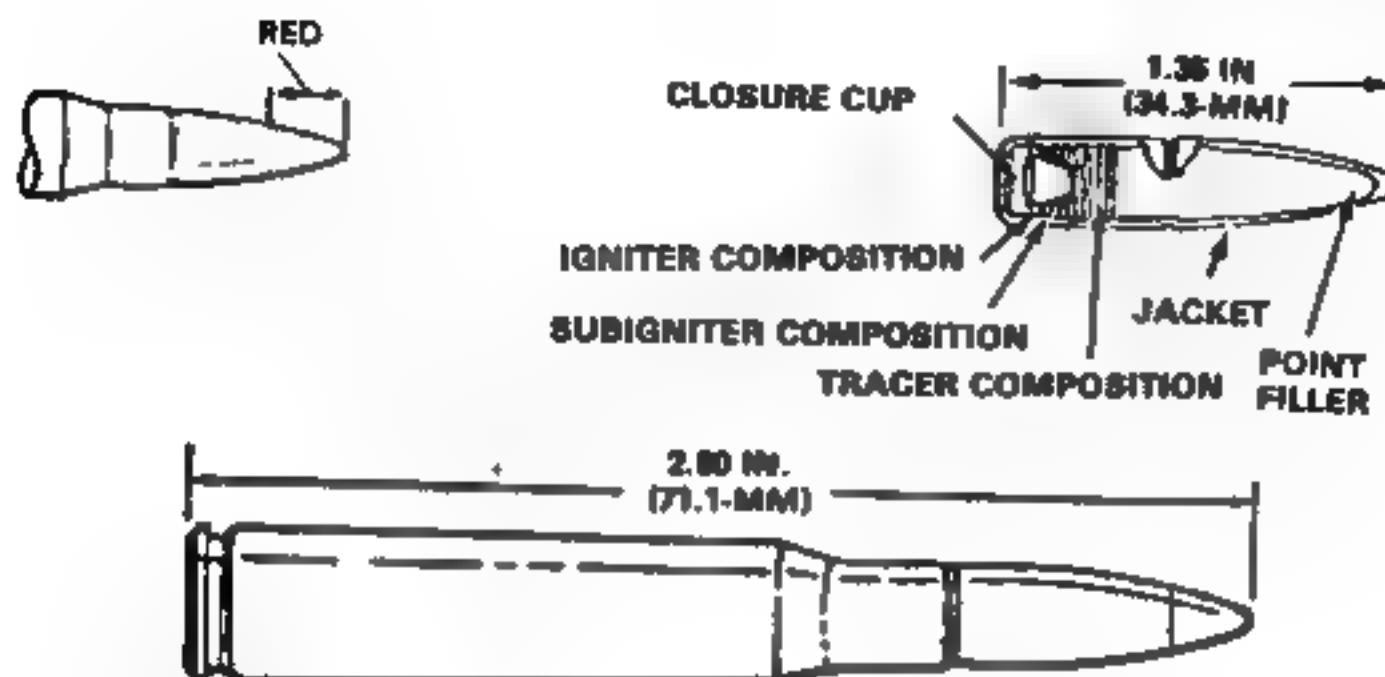
Shipping and Storage Data:

Quantity-distance class/SCG	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10522000

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-243-12
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM., TRACER, M12 (OVERHEAD FIRE MISSION)



AR080-0127

Type Classification:

CON - MSR 11756003

Use:Machine Guns, 7.62-MM, M60, M219 and M240;
Rifle, M14.Description:TRACER Cartridge. The cartridge is identified
by a red bullet tip.Purpose:This cartridge is used in Weapons for firing
over the heads of troops being trained in field
exercises. Stringent production control and
screening of ammunition lots ensure the safety
of personnel operating immediately below the
trajectory of the fired bullets.Tabulated Data:

DODAC	1305-A167
Weight	387 grain
Length	2.80 inch
Tracer	R-284
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 846
Weight	46 grain

Projectile:

Weight	146.0 grain
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Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps, 78 ft from muzzle

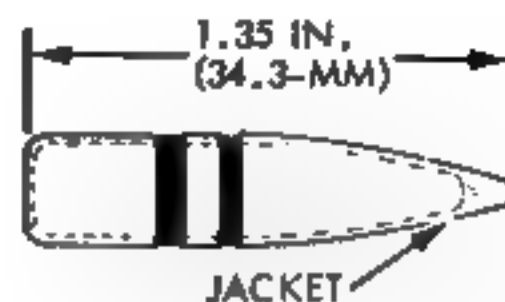
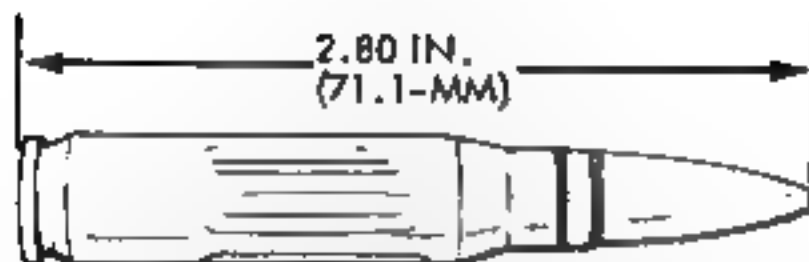
Shipping and Storage Data:

Quantity-distance class/SCG --	1.4S
Storage code	Class V
DOT shipping class	■
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10595493

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-20
TM 9-1300-206
SB 700-20

DUMMY CARTRIDGE, 7.62-MM, M63



AUTOMATIC

Type Classification:

Std - OTCN 35841

Use:

Machine Guns, 7.62-MM, M60, M219 and M240;
Rifle, 7.62-MM, M14.

Description:

DUMMY Cartridge. The cartridge is identified by six longitudinal corrugations (flutings) on the cartridge case. In addition, there is no primer, and no vent hole in the primer pocket.

Purpose:

This is a dummy cartridge used for practice in loading 7.62-MM weapons for simulated firing to detect flinching of personnel during firing and for inspecting and testing the weapon mechanism.

Tabulated Data:

DODAC	1305-A135
Weight	258 grain
Length	2.80 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

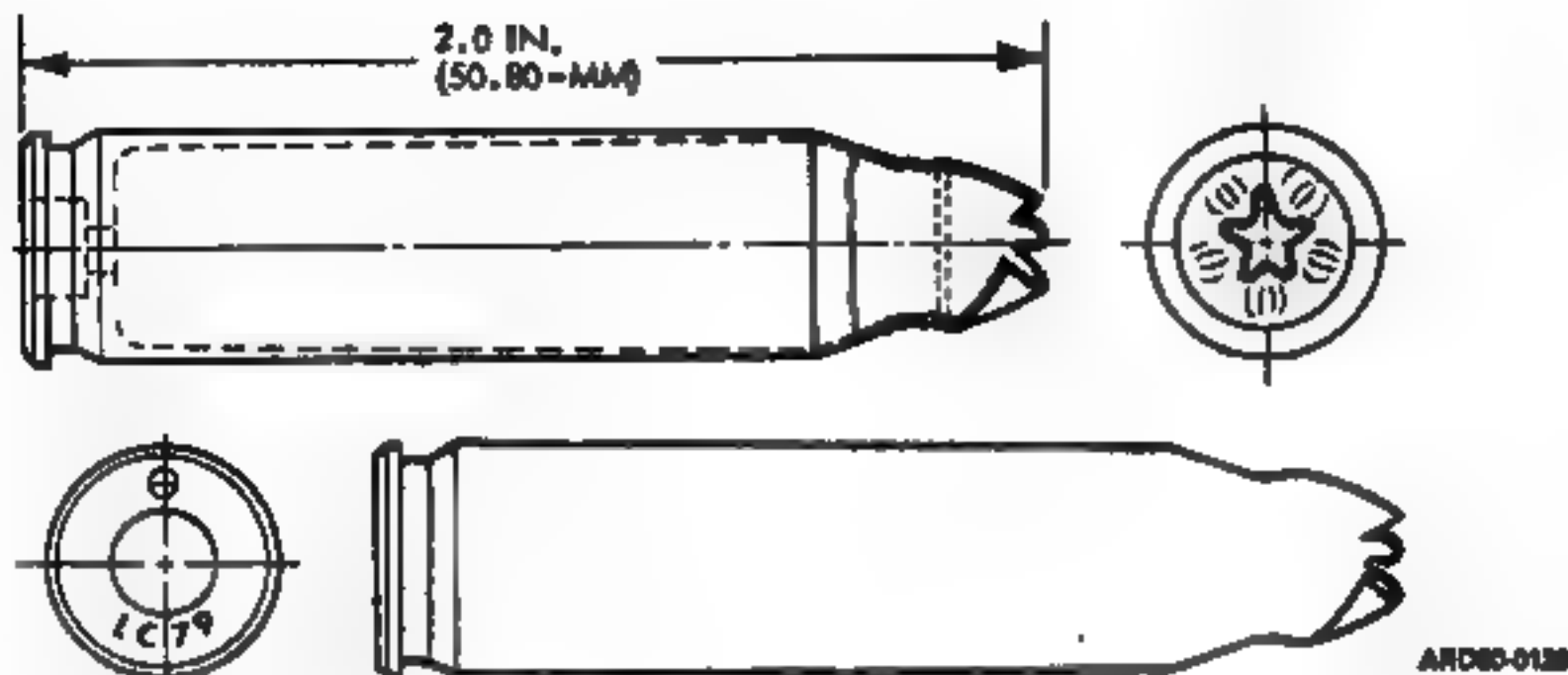
Shipping and Storage Data:

Quantity-distance class/SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	Non-explosive
	AMMUNITION
Drawing number	7653706

References:

TM 9-1005-223-10
 TM 9-1005-223-12P
 TM 9-1005-224-10
 TM 9-1005-233-10
 TM 9-1005-243-12
 TM 9-1005-247-12
 TM 9-1005-257-12
 TM 9-1005-262-14
 TM 9-1005-298-12
 TM 9-1005-313-10
 TM 9-1300-206
 SB 700-20

CARTRIDGE, 7.62-MM. GRENADE, M64



Type Classification:

CSG - MSR - 11756003

Use:

Rifle, 7.62-MM, M14.

Description:

GRENADE Cartridge. The cartridge is identified by a rose-petal (rosette crimp) closure of the cartridge case mouth and sealed with red lacquer.

Purpose:

This cartridge provides pressure to project rifle grenade to a desired target when using a grenade projection adapter and Dragon missile launch effect.

Tabulated Data:

DODAC	1306-G839
Weight	295 grain
Length	2.0 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	WC 830
Weight	45 grain

Performance:

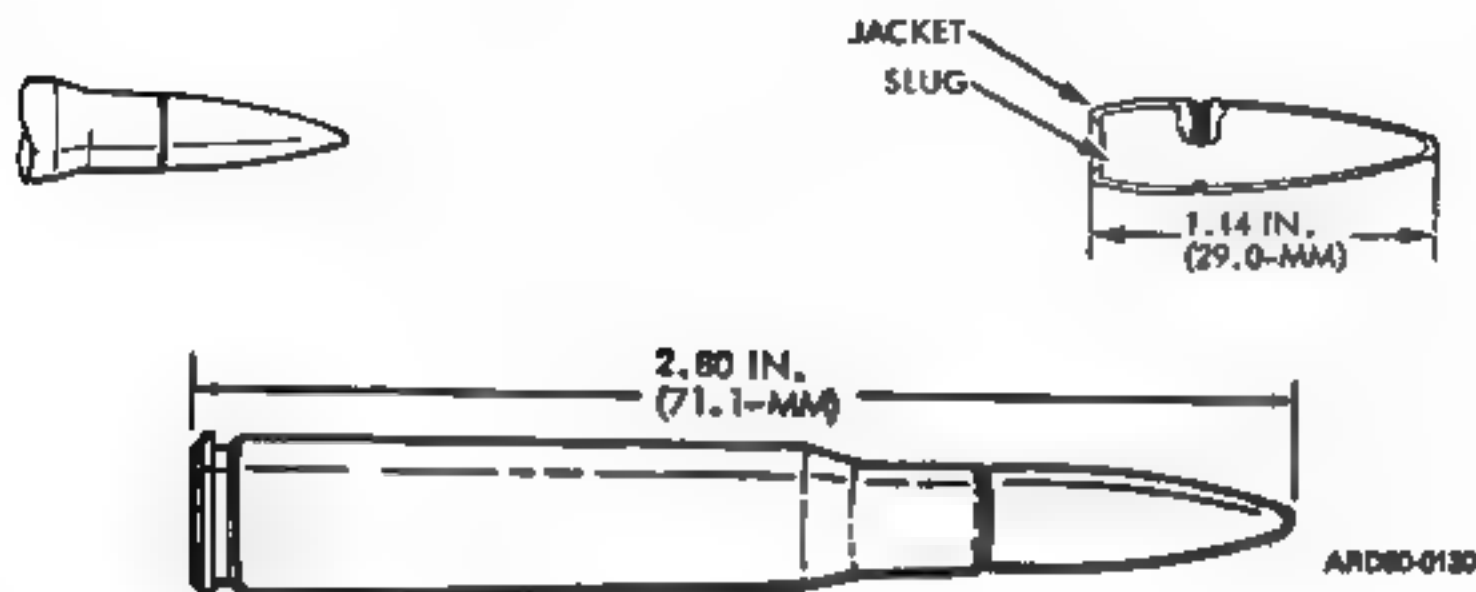
Chamber pressure	NA
Velocity	160 fps, 6.6 ft from muzzle for projected grenade

Shipping and Storage Data:

Quantity-distance class/SCB	-- 1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7553707

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, BALL, M80**Type Classification:**

Std - MSR 07798001

Use:Machine Guns, 7.62-MM, M60, M219 and M240;
Rifle, 7.62-MM, M14.**Description:**BALL Cartridge. This cartridge is identified by a plain bullet tip.**Purpose:**

The purpose is intended for use against personnel and unarmored targets.

Tabulated Data:

DODAC	1305-A122
Weight	392 grain
Length	2.80 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	WC 846
Weight	46 grain

Projectile:

Weight	146 grain
--------------	-----------

Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps, 78 ft from muzzle

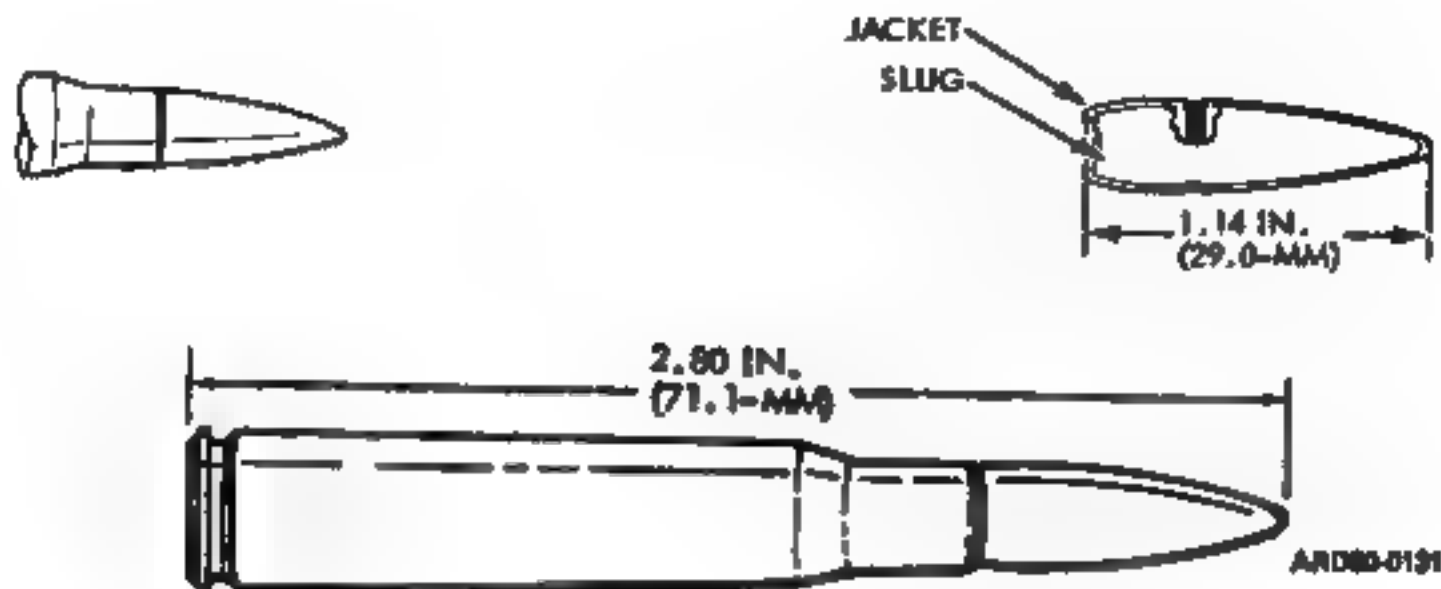
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10521998

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-243-12
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, BALL, MS9 (Overhead Fire Application)

Type Classification:

Std - MSR 07798001

Use:

Machine Guns, 7.62-MM, M60, M219 and M240.

Description:

BALL Cartridge. This cartridge is identified by a plain bullet tip.

Purpose:

This cartridge is used in machine guns for firing over the heads of troops being trained in field exercises. Stringent production control and screening of ammunition lots ensure the safety of personnel operating immediately below the trajectory of the fired bullets.

Tabulated Data:

DODAC	1305-A166
Weight	392 grain
Length	2.80 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA
Propellant:	
Type	NC 846
Weight	46 grain

Projectile:

Weight 149.0 grain

Performance:

Chamber pressure	50,000 psi
Velocity	2750 fps,
	78 ft from
	muzzle

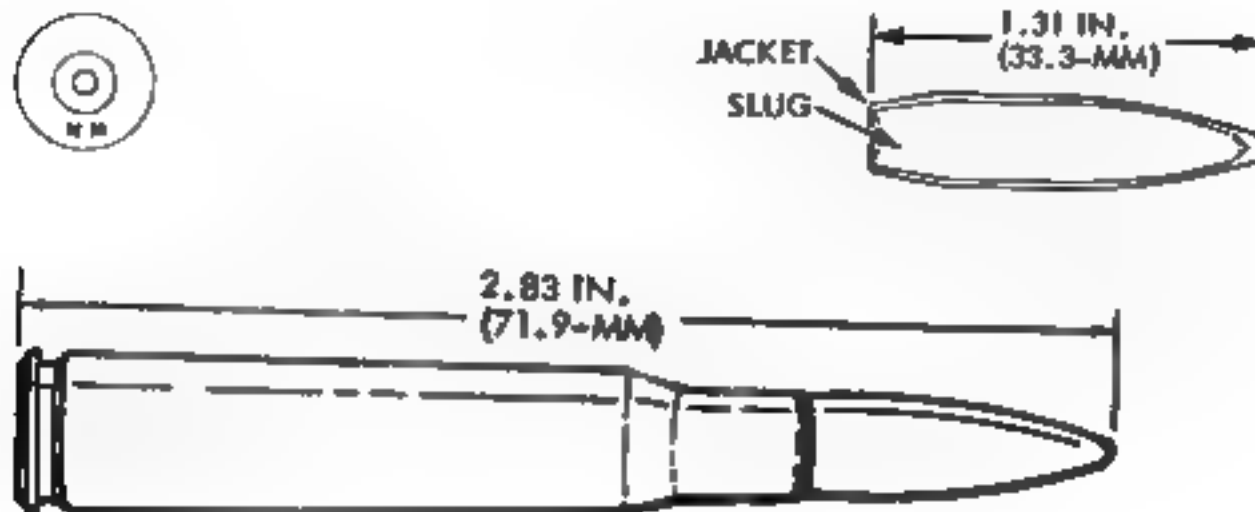
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10523088

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-243-12
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-20
TM 9-1005-313-34
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, BALL, Match M118



ARDBD-0132

Type Classification:

Std - MSR 07798001

Use:

Rifle, 7.62-MM, M14, NATIONAL MATCH.

Description:

MATCH Cartridge. This cartridge is identified by cartridge case head stampings either "NM" (NATIONAL MATCH) or MATCH.

Purpose:

This cartridge is intended and specifically prepared for use in those weapons designated as competition rifles.

Tabulated Data:

DDAC	1305-A136
Weight	390 grain
Length	2.83 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	NC 846
Weight	44 grain
Projectile:	
Weight	176.5 grain

Performance:

Chamber pressure	50,000 psi
Velocity	NA

Shipping and Storage Data:

Quantity-distance class/SCB	1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	8597555

References:

TM 9-1005-223-12P
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, FRANGIBLE, M160



DEFINITIONS:

Std - AMTC 2188

Use:

Machine Gun, 7.62-MM, M219 and M240.

Description:

FRANGIBLE Cartridge. The Cartridge is identified by a green bullet tip with a white ring to the rear of the green tip.

Remarks:

This cartridge is designed for firing single shots in the machine gun for gunnery practice. The frangible bullet on striking a target disintegrates, leaving a mark at the point of impact. It is not to be fired on indoor ranges unless they are well ventilated, to prevent the buildup of bullet "dust", which is toxic.

Tabulated Data:

DODAC	1305-A147
Weight	315 grain
Length	2.80 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	SR 8074
Weight	105 grain
Projectile:	
Weight	105.6 grain

Performance:

Chamber pressure	NA
Velocity	1320 fps, 100 yds from muzzle

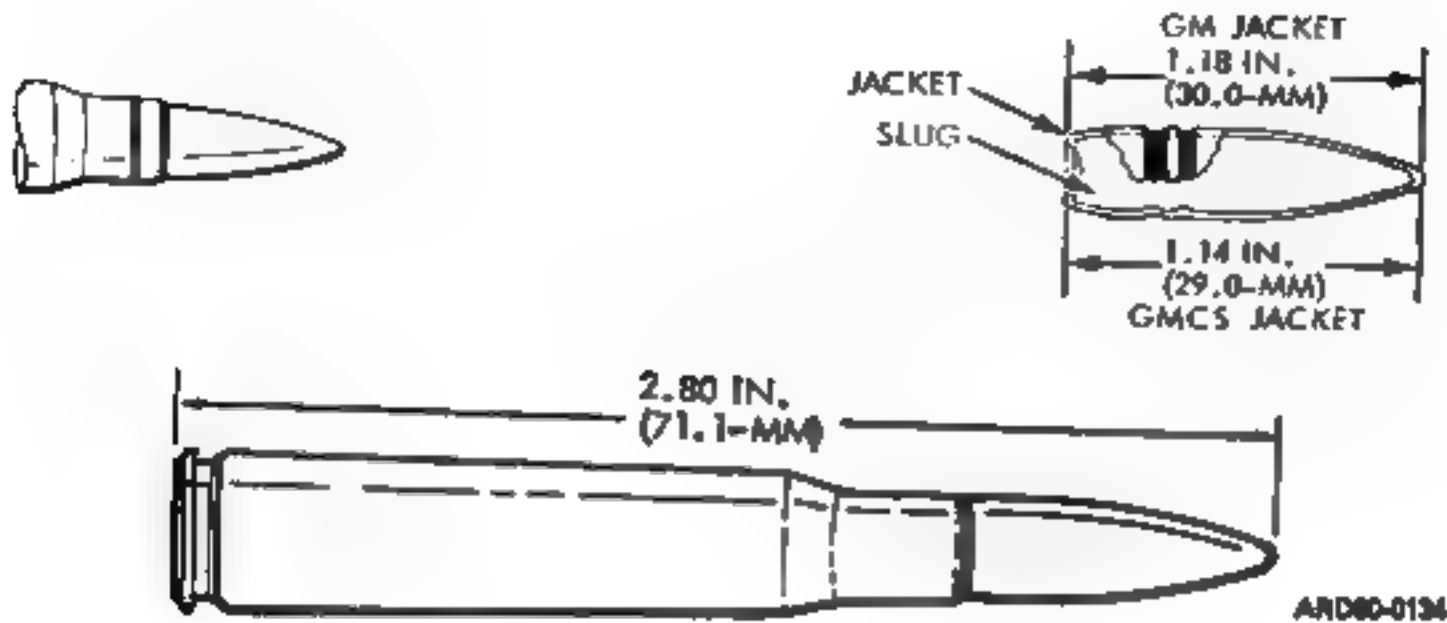
Shipping and Storage Data:

Quantity-distance class/SCB	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	10622475

References:

TM 9-1005-224-10
 TM 9-1005-233-10
 TM 9-1005-257-12
 TM 9-1005-262-14
 TM 9-1005-298-11
 TM 9-1005-313-10
 TM 9-1005-328
 TM 706-10

DUMMY CARTRIDGE, 7.62-MM, M172



Type Classification:

Std - AMCTC 4635

Use:

Test of 7.62-MM Weapons.

Description:

DUMMY Cartridge. The cartridge is identified by a black oxide finish over the entire round and has no primer, and there is no vent hole in the primer pocket.

Purpose:

This is an inert cartridge used to test the mechanism and metallic link belts of 7.62-MM weapons.

Tabulated Data:

DODAC	1305-A162
Weight	385 grain
Length	2.80 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

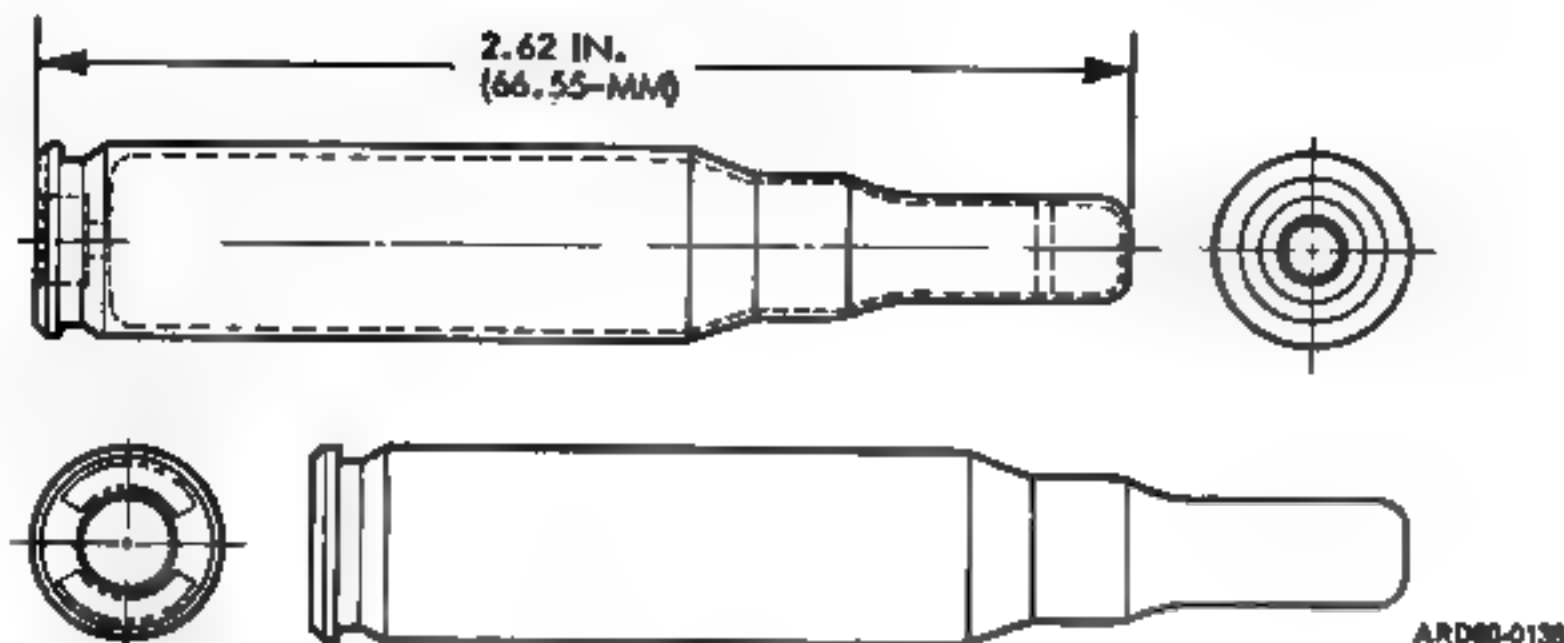
Shipping and Storage Data:

Quantity-distance class/SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	NON-EXPLOSIVE AMMUNITION
Drawing number	10522688

References:

TM 9-1005-223-10
TM 9-1005-223-12P
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-10
TM 9-1300-206
SB 700-20

CARTRIDGE, 7.62-MM, BLANK, M82

Type Classification:

Std - DTCN 36841

Use:Machine-Guns, 7.62-MM, M60, M219 and M240;
Rifle, 7.62-MM, M14.Description:

BLANK Cartridge. The cartridge is identified by its double tapered neck and the absence of a bullet.

Purpose:

The cartridge is used in rifles and machine guns equipped with blank firing attachments to simulate firing in training exercises and for saluting purposes.

Tabulated Data:

DODAC	1305-A112
Weight	236 grain
Length	2.62 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	SR 8231
Weight	15 grain

Performance:

Chamber pressure	NA
Velocity	NA

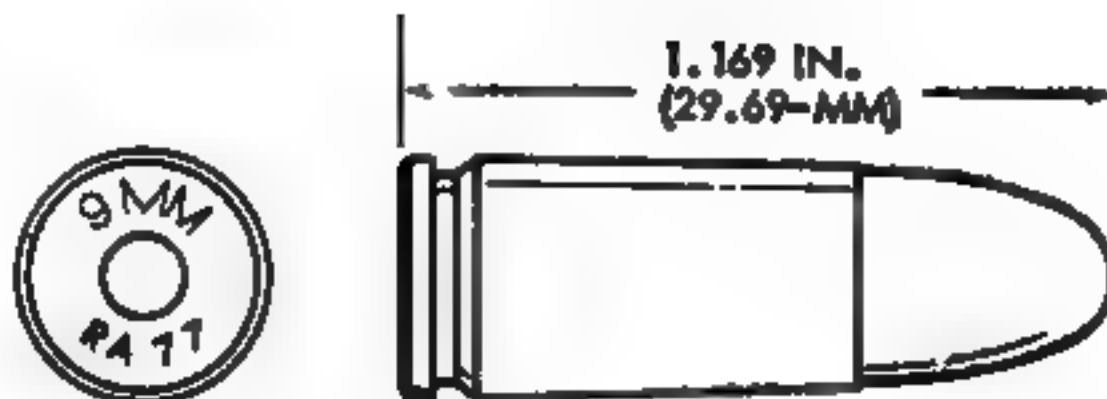
Shipping and Storage Data:

Quantity-distance class/SCG	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	8597283

References:

TM 9-1005-223-10
TM 9-1005-224-10
TM 9-1005-233-10
TM 9-1005-243-12
TM 9-1005-247-12
TM 9-1005-257-12
TM 9-1005-262-14
TM 9-1005-298-12
TM 9-1005-313-20
TM 9-1005-313-34
TM 9-1300-206
SB 700-20

CARTRIDGE, 9-MM, BALL



ARDB-0136

Type Classification:

Commercial

Use:

Modified M3 Submachine Gun or Commercial Weapons.

Description:

BALL Cartridge.

Purpose:

The cartridge is intended for use against personnel.

Tabulated Data:

DODAC	1305-A360
Weight	182 grain
Length	1.169 inch
Tracer	NA
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA
Incendiary:	
Type	NA
Weight	NA

Propellant:

Type	Commercial
Weight	NR

Performance:

Chamber pressure	36,000 psi
Velocity	1340 fps,
	15 ft from
	bullet

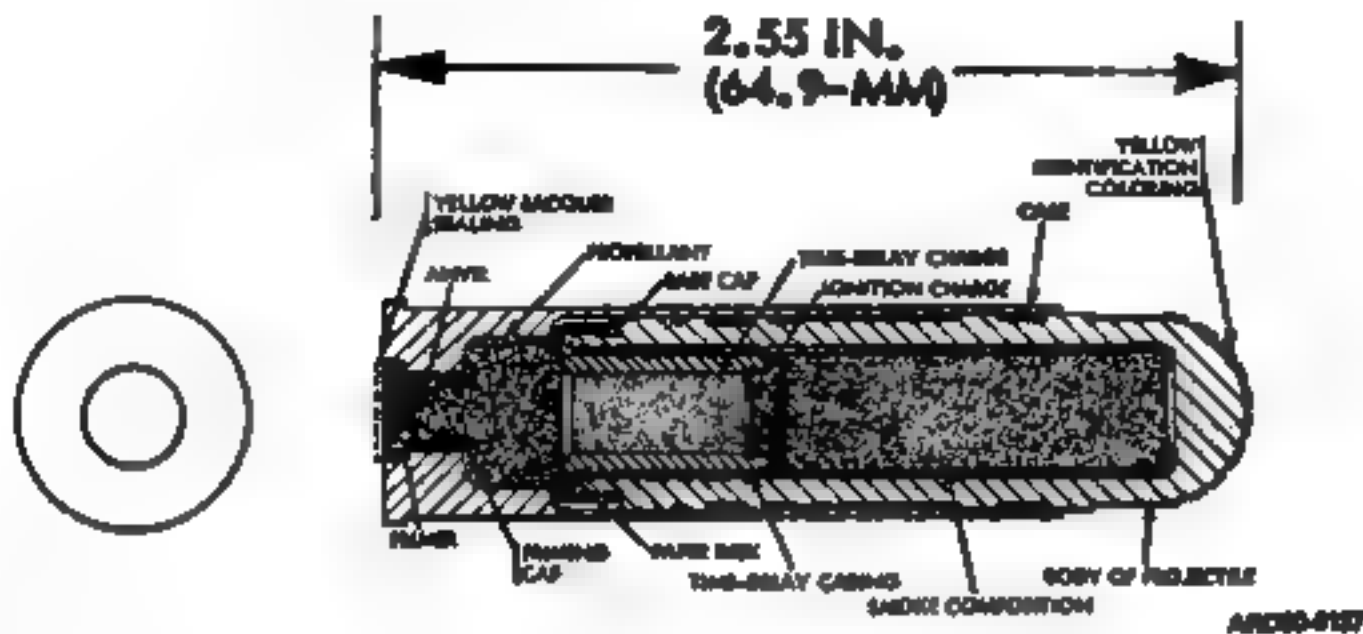
MILITARY AND LOGISTICS DATA

Quantity-distance class/DCR ..	1.45
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	10642448

References:

TM 9-1300-206
DA 700-10

CARTRIDGE, 14.5-MM, TRAINER-SPOTTER, M101A1

Type Classification:

Std - AMCTC 130

Use:

Artillery Trainer, M31.

Description:

The cartridge has a chemical filled (smoke composition) projectile. It is identified by markings on the cartridge case and a yellow projectile tip. The cartridge has no fuze. It uses a time delay element to provide an air burst.

Purpose:

The cartridge is fired, the heat of the propellant gases ignites the delay element. The delay element burns three seconds and in turn ignites the smoke composition. The heat and pressure produced by the burning filler ruptures the plastic closing disc at the projectile base and a visible puff of smoke is emitted.

Tabulated Data:

DODAC 1305-A366
 Weight 1065 grain
 Length 2.55 inch
 Tracer NA
 Primer Percussion
 Fuze Powder train delay

Explosive:

Type NA
 Weight NA

Incendiary:

Type NA
 Weight NA

Propellant:

Type HI SKOR 700X
 Weight 3.5 grain

Performance:

Chamber pressure NA
 Velocity 100 mps 4
 meters from
 muzzle
 320 fps,
 15 ft from
 muzzle

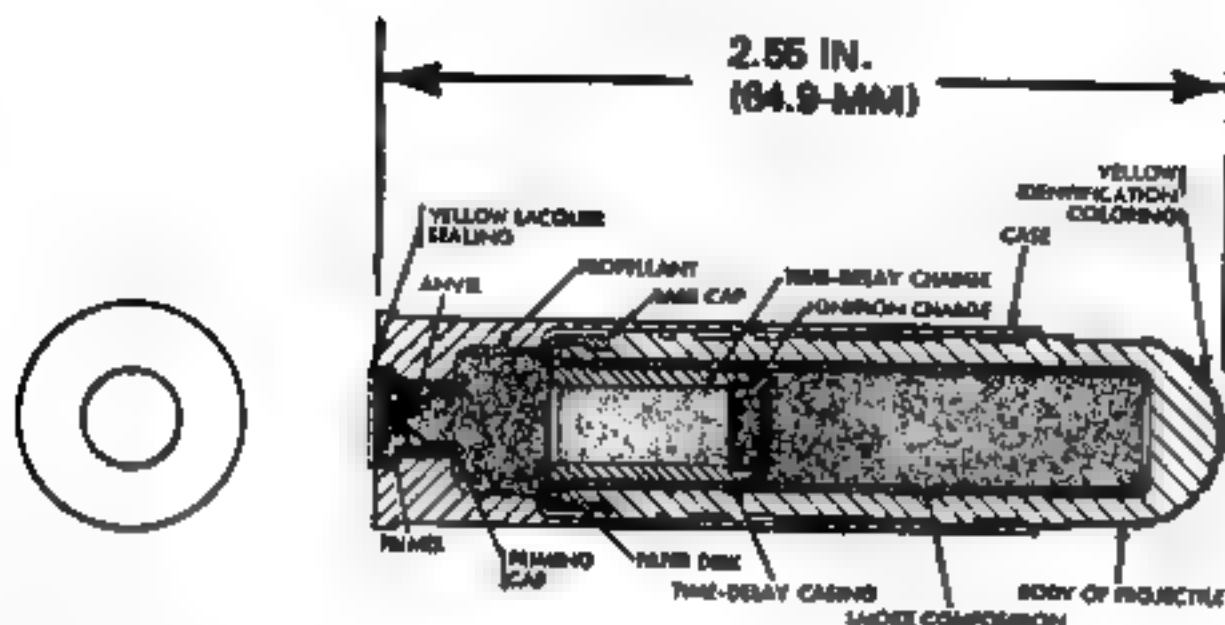
Shipping and Storage Data:

Quantity-distance class/SCB -- 1.45
 Storage code Class V
 DOT shipping class C
 DOT designation SMALL ARMS
 AMMUNITION
 Drawing number 9098295

References:

TM 4-1700-100
 TM 9-6920-361-13
 TM 9-6920-361-134P
 AF 700-20

CARTRIDGE, 14.5-MM, TRAINER-SPOTTER, M181A1



ARD80-0138

Type Classification:

Std - AMTC 138

Use:

Artillery Trainer, M31.

Description:

The cartridge has a chemical filled (smoke composition) projectile. It is identified by markings on the cartridge case and a yellow projectile tip. The cartridge has no fuze, it uses a time delay element to provide an air burst.

Purpose:

The cartridge is fired, the heat of the propellant gases ignites the delay element. The delay element burns 6 seconds and in turn ignites the smoke composition. The heat and pressure produced by the burning filler ruptures the plastic closing disc at the projectile base and a visible puff of smoke is emitted.

Tabulated Data:

DODAC 1305-A355
 Weight 1065 grain
 Length 2.55 inch
 Tracer NA
 Primer Percussion
 Fuze Powder train delay

Explosive:

Type NA
 Weight NA

Incendary:

Type NA

Weight NA

Propellant:

Type HI SKOR 700X

Weight 3.5 grain

Performance:

Chamber pressure NA

Velocity 100 mps 4
 meters from
 muzzle
 328 fps,
 15 ft from
 muzzle

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.45

Storage code Class V

DOT shipping class C

DOT designation SMALL ARMS
 AMMUNITION

Drawing number 101017

References:

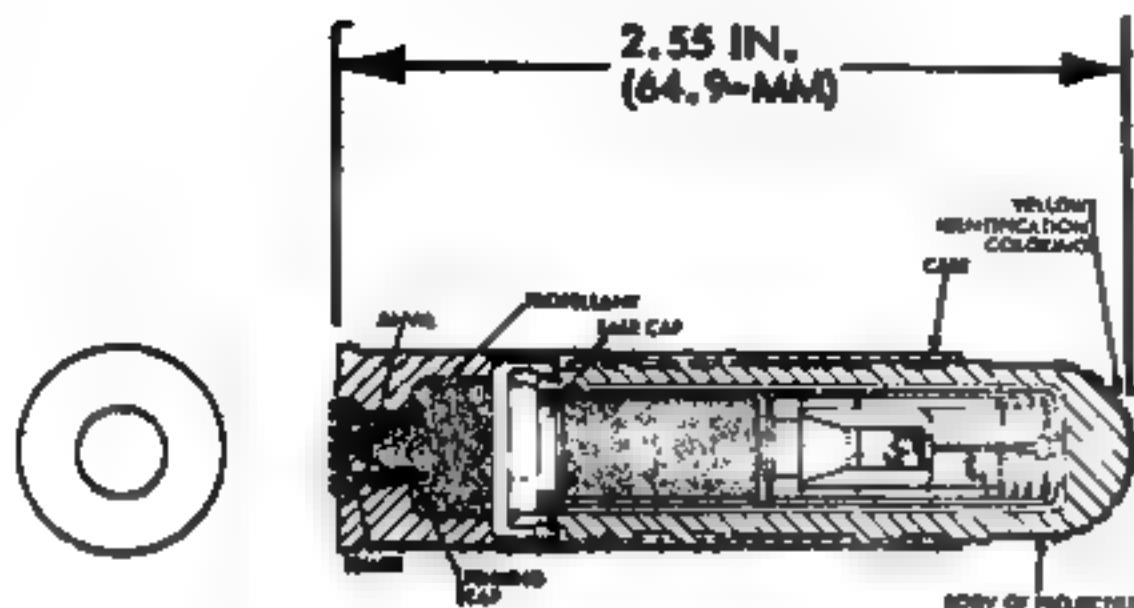
TM 9-1300-206

TM 9-6920-361-13

TM 9-6920-361-13A

SB 700-20

CARTRIDGE, 14.5-MM, TRAINER-SPOTTER, M183A1



ARD80-0138

Type Classification:

Std - ANTC 138

Use:

Artillery Trainer, M31.

Description:

The cartridge consists of a cartridge case, a chemical filled (smoke composition) projectile, and a fuze with a small explosive charge to provide a visible and audible verification at point of impact. The cartridge is identified by markings on the cartridge case and a yellow projectile tip.

Purpose:

The projectile impacts with the target. The point detonation fuze functions; an explosive charge within the fuze ignites the smoke composition and ejects it out the base of the projectile.

Tabulated Data:

DODAC	1305-A367
Weight	1065 grain
Length	2.55 inch
Tracer	NA
Primer	Percussion
Fuze	Point Detonating

Explosive:

Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	H1 SKOR 700X
Weight	3.6 grain

Performance:

Chamber pressure	NA
Velocity	100 mps 4 meters from muzzle 328 fps, 15 ft from muzzle

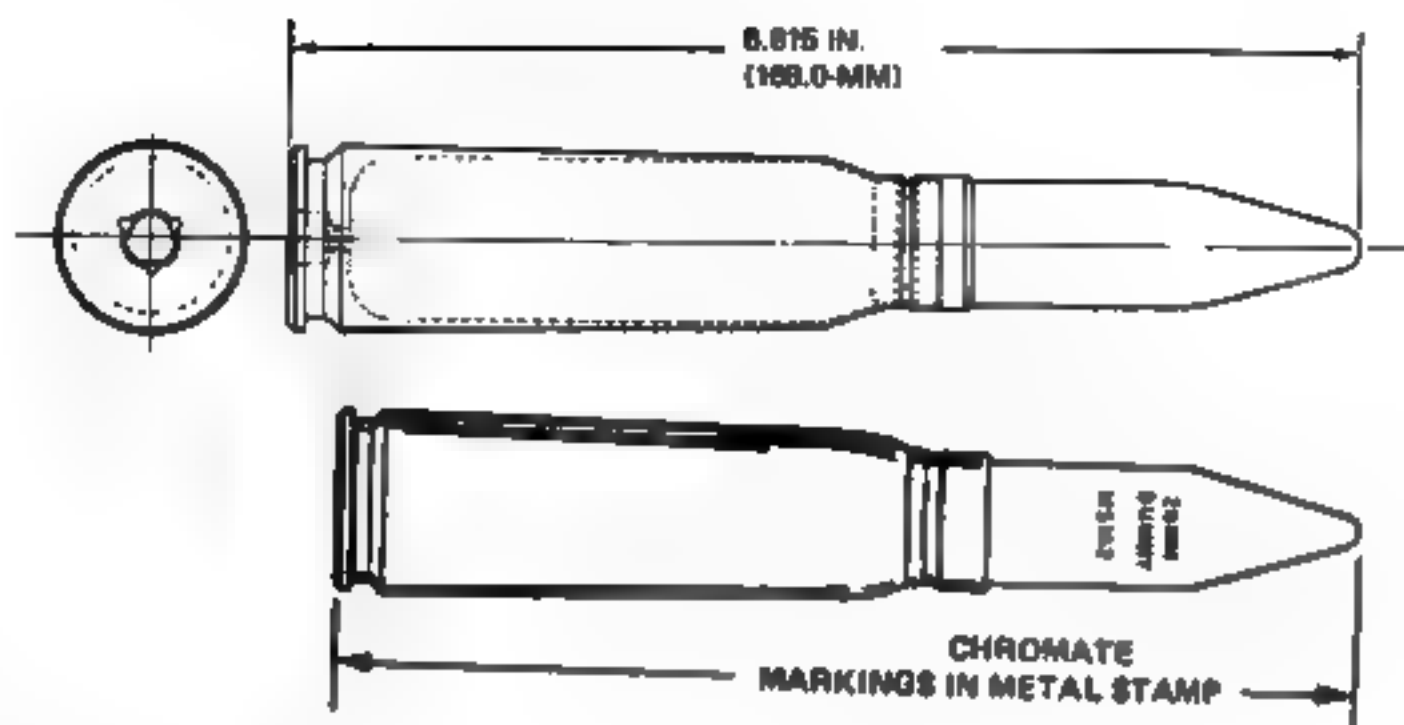
Shipping and Storage Data:

Quantity-distance class/SCG	-- 1.4S
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	9098293

References:

TM 9-1300-206
TM 9-6920-361-13
TM 9-6920-361-13A
NA 700-20

CARTRIDGE, DUMMY 20-MM, M51A2



ARDBD-0140

Type Classification:

Std - ANCTC 6900

Use:

Gun, 20-MM, M39, M61, M139, M168, M195 and M197.

Description:DUMMY Cartridge.Purpose:

Dummy M51A2. The dummy is a completely inert assembly used for filling the conveyor system during shipment or storage and for nonfiring system checkout.

Tabulated Data:

DODAC	1305-A924
Weight	3850 grain
Length	6.615 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- NA

Weight ----- NA

Performance:

Chamber pressure ----- NA

Velocity ----- NA

Shipping and Storage Data:

Quantity-distance class/SCG -- NI

Storage code ----- NA

DOT shipping class ----- NA

DOT designation ----- Non-Explosive
Ammunition

Drawing number ----- 11075758

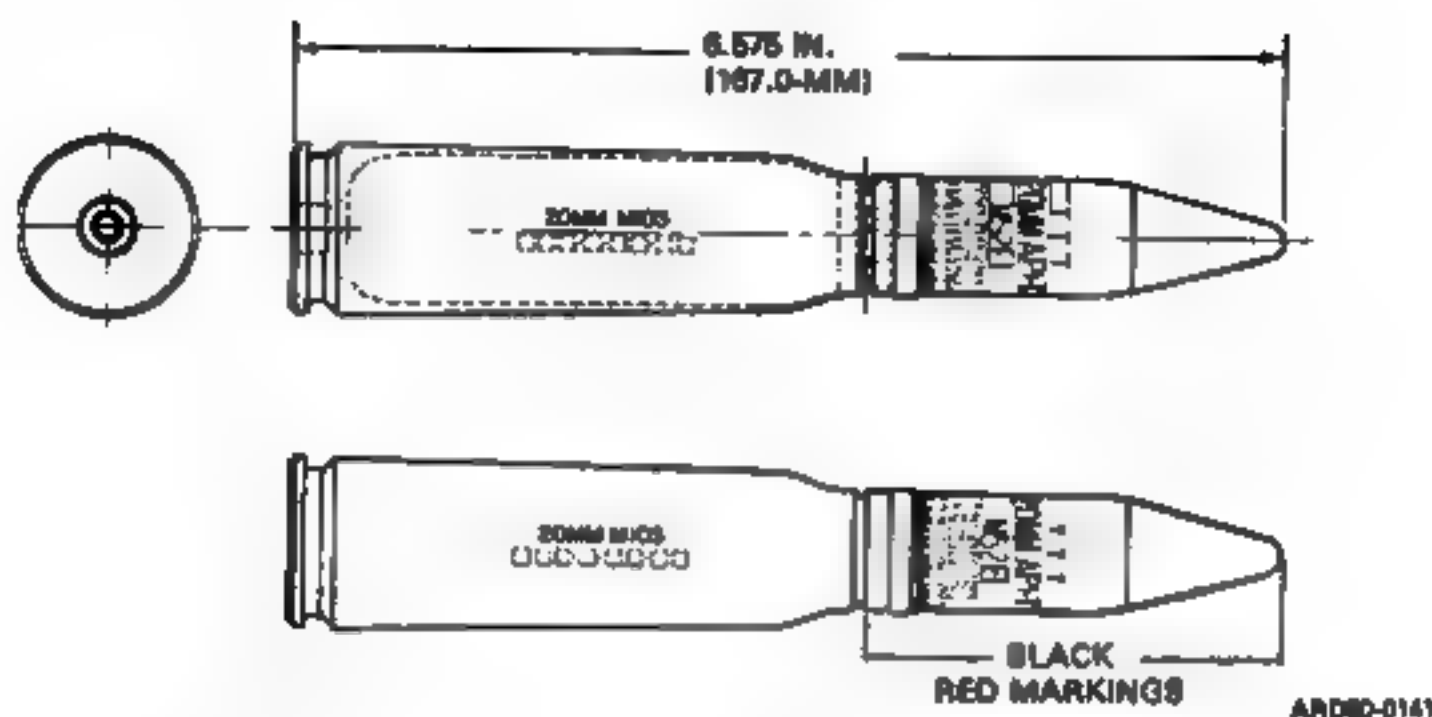
References:

TM 9-1005-286-10

TM 9-1300-206

SB 700-20

CARTRIDGE, 20-MM, API-T, M52E1

Type Classification:

Std - OTCM 37404

Use:

Gun, 20-MM, M39, M61 and M195.

Description:

ARMOR PIERCING-INCENDIARY Cartridge with TRACER. The AP Shot is the main part of the projectile. The ballistic cap (ogive) contains an incendiary composition. The cartridge is identified by a black painted projectile with red markings.

Purpose:

The nose/ogive of the projectile impacts with the target, ruptures and the incendiary composition ignites on exposure to the air. Used against moderately armed targets and when incendiary effect is needed.

Tabulated Data:

DODAC ----- 1305-A870
 Weight ----- 3900 grain
 Length ----- 6.575 inch
 Tracer ----- R284
 Primer ----- Electric, M52A3B1
 Fuze ----- NA
 Explosive:
 Type ----- NA
 Weight ----- NA

Incendiary:

Type ----- I280
 Weight ----- 65 grain

Propellant:

Type ----- WC 870 or 872
 Weight ----- MBR (585-805)

Performance:

Chamber pressure ----- 60,500 psi
 Velocity ----- 3380 fps,
 70 ft from
 muzzle

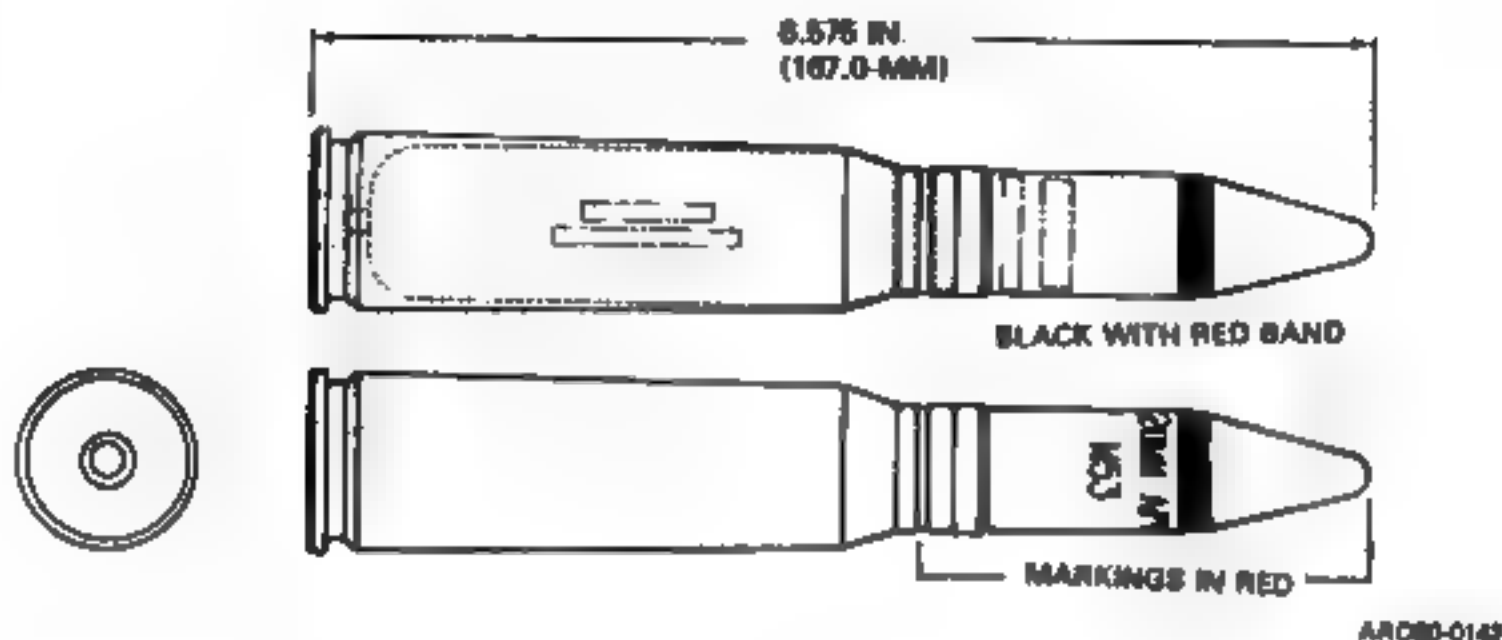
Shipping and Storage Data:

Quantity-distance class/SCB -- 1.4G
 Storage code ----- Class V
 DOT shipping class -----
 DOT designation ----- **AMMUNITION**
 FOR SMALL
 ARMS WITH
 INCENDIARY
 PROJECTILES
 Drawing number ----- 725921B

References:

TM 9-1300-206
 SB 700-20

CARTRIDGE, 20-MM. API. M53



Type Classification:

Std - OTCM 36B41

Use:

Gun, 20-MM, M39, M61 and M16R

Description:

ARMOR PIERCING-INCENDIARY Cartridge. The body of the projectile is a solid shot made from bar alloy steel. The nose of the projectile is made from aluminum alloy and is charged with three increments of incendiary composition. The projectile is painted black with red band and red markings.

Purpose:

The cartridge is used against armored targets, and functions with a combined incendiary and penetrating effect.

Tabulated Data:

DODAC	=====	1305-A798
Weight	=====	3980 grain
Length	=====	6.575 inch
Tracer	=====	NA
Primer	=====	Electric, M52A3B
Fuze	=====	NA
Explosive:		
Type	=====	NA
Weight	=====	NA

Incendary:

Type ----- No. 23 or No. 136
and No. 68
Weight ----- 65 grain

Propellant:

Type ----- MC 870 or 872
Weight ----- NBR (585-605 grains)

Performance:

Chamber pressure ----- 60,500 psi
Velocity ----- 3380 fps,
50 ft from
muzzle

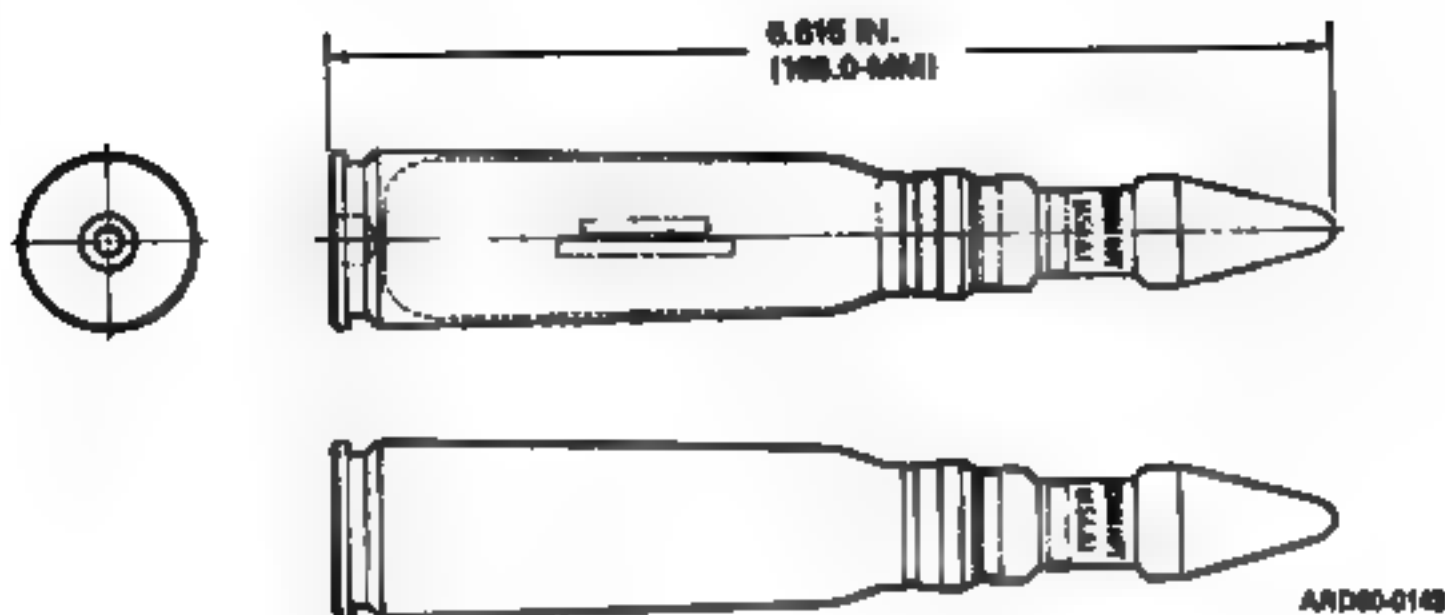
Shipping and Storage Data:

Quantity-distance class/SCG -- 1.4G
Storage code ----- Class V
DOT shipping class ----- A
DOT designation ----- AMMUNITION
FOR SMALL
ARMS WITH
INCENDIARY
PROJECTILES
Drawing number ----- JZ58802

References:

TN 9-1005-299-12
TN 9-1300-206
SB 700-20

CARTRIDGE, 20-MM., BALL, HPT, M54A1



Type Classification:

Std - AMCTC 6899

430:

Gun, Automatic, 20-MM, M39, and M61 chambered for the M103 case configuration.

Description:

HIGH PRESSURE TEST. The high pressure test cartridge is a solid steel projectile, under cut behind the ogive to control projectile weight, for developing high chamber pressure. The cartridge is identified by a stannic-stained (silvered) cartridge case.

Purpose:

This cartridge is used for proof testing of 20-MM weapons and barrels during manufacture and repair.

Tabulated Data:

DDAC	1305-A992
Weight	4392 grains
Length	6.615 inch
Tracer	NA
Primer	M52A3B1, Electric
Fuze	NA

Explosive:

Type	xxxxxx	NA
Weight	xxxxxx	NA

Incendary:

Type	NA
Weight	NA

Propellant:

Type WC 870 or 872
Weight NBR

Performance:

Chamber pressure 62,500 to
72,500 psi
(copper)

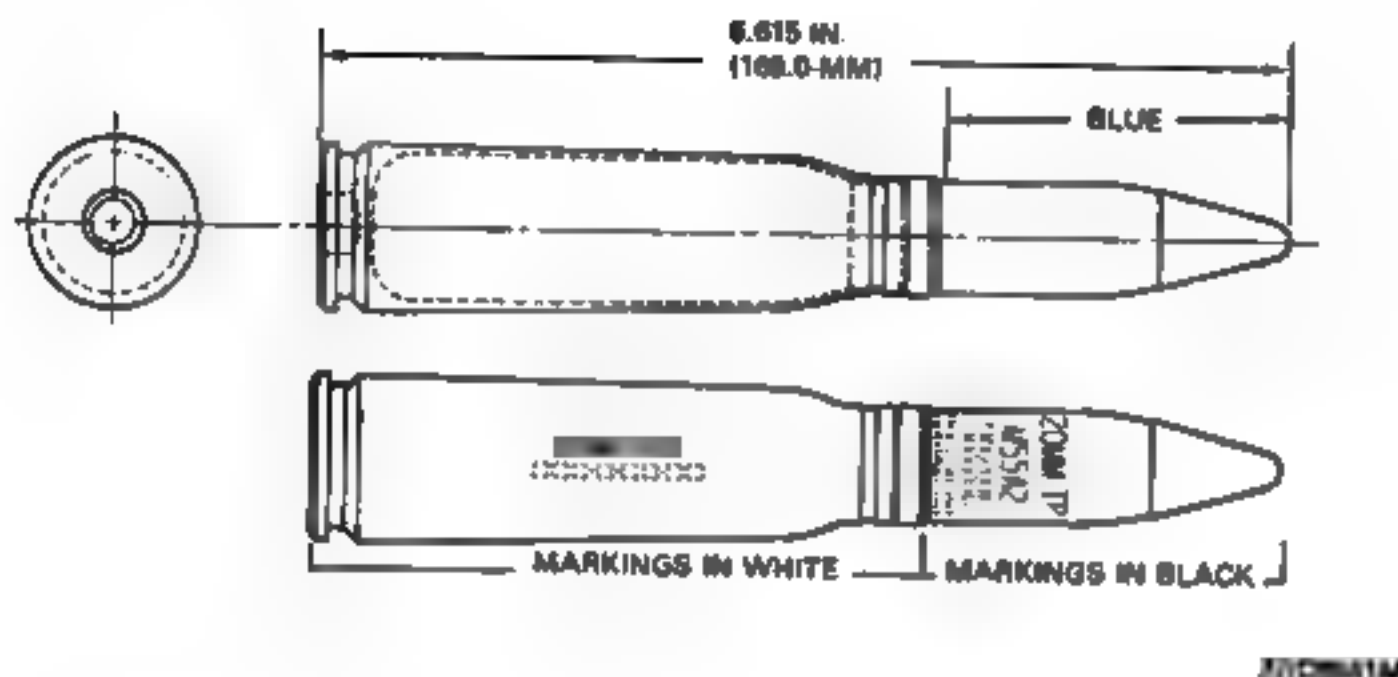
Shipping and Storage Data:

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Explosive hazard class ----- 1  
Quantity-distance class/SCB -- 1.4C  
Storage code ----- Class V  
DOT shipping class ----- C  
DOT designation ----- SMALL ARMS  
AMMUNITION  
Drawing number ----- 7258858
```

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, TP, M55A2

Type Classification:

Std - AMCTC 7741

Use:

Gun, 20-MM, M39, M61, and M69

Description:

PRACTICE Cartridge. The one piece projectile cavity is hollow. The nose (ogive) made of aluminum or steel is swaged to the projectile body. Projectile is painted blue with markings in black.

Purpose:

This cartridge is a training round intended as a substitute for a service round to be used in target practice. It consists of a solid projectile without a fuze. The projectile is inert; therefore, no specific function takes place upon impact except penetration of the target.

Tabulated Data:

DODAC	1305-A897
Weight	3935 grain
Length	6.615 inch
Tracer	■
Primer	Electric M52A3B1
Fuze	■

Explosive:

Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 870 or 872
Weight	MBR (585 or 605 grains)

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps, 78 ft from muzzle

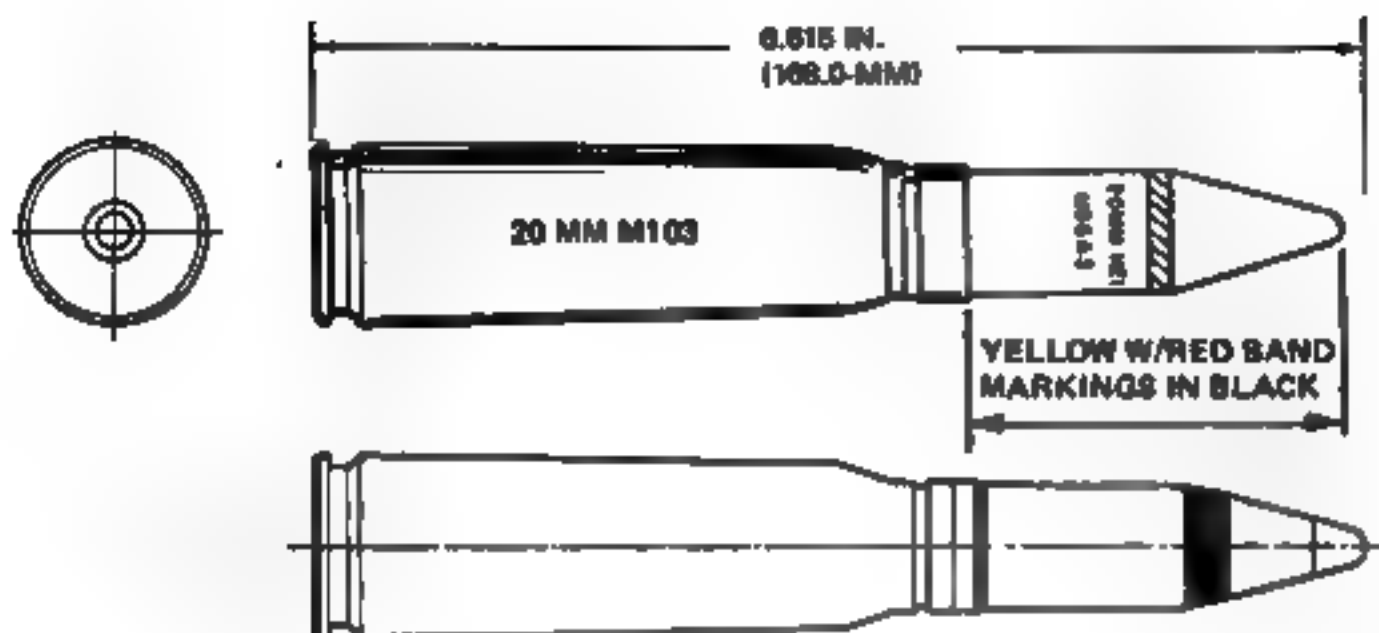
Shipping and Storage Data:

Quantity-distance class/SCB	1.4C
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7258817

Reference:

TM 9-1005-286-10
TM 9-1005-299-12
TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, HEI, M50A3



ARD80-0245

Type Classification:

Std - AMCTC 7741

Use:

Gun, 20-MM, M39 and M61, M168.

Description:

HIGH EXPLOSIVE with **INCENDIARY** composition cartridge. The projectile is thin-walled steel. A base plate is attached to the projectile to prevent ignition of the incendiary mixture by the propellant gases. A point-detonating fuze is screwed into the nose of the projectile. The projectile is painted yellow with red band. Markings are in black.

Purpose:

This cartridge is for use against ground targets, including lightly armored vehicles, functioning with both explosive and incendiary effect. The projectile consists of an HEI charge and is assembled with the M50A3 fuze. The M50A3 fuze is a point-detonating, single-action fuze intended to function on impact with the target.

Tabulated Data:

DODAC	1305-A890
Weight	3965 grain
Length	6.615 inch
Tracer	NA
Primer	Electric M52A3B1
Fuze	Point-Detonating M50A3

Explosive:

Type	H761
Weight	165 grain

Incendiary:

Type	I 136
Weight	20 grain

Propellant:

Type	WC 870 or 872
Weight	M8R (585 or 605 grains)

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps, 78 ft from muzzle

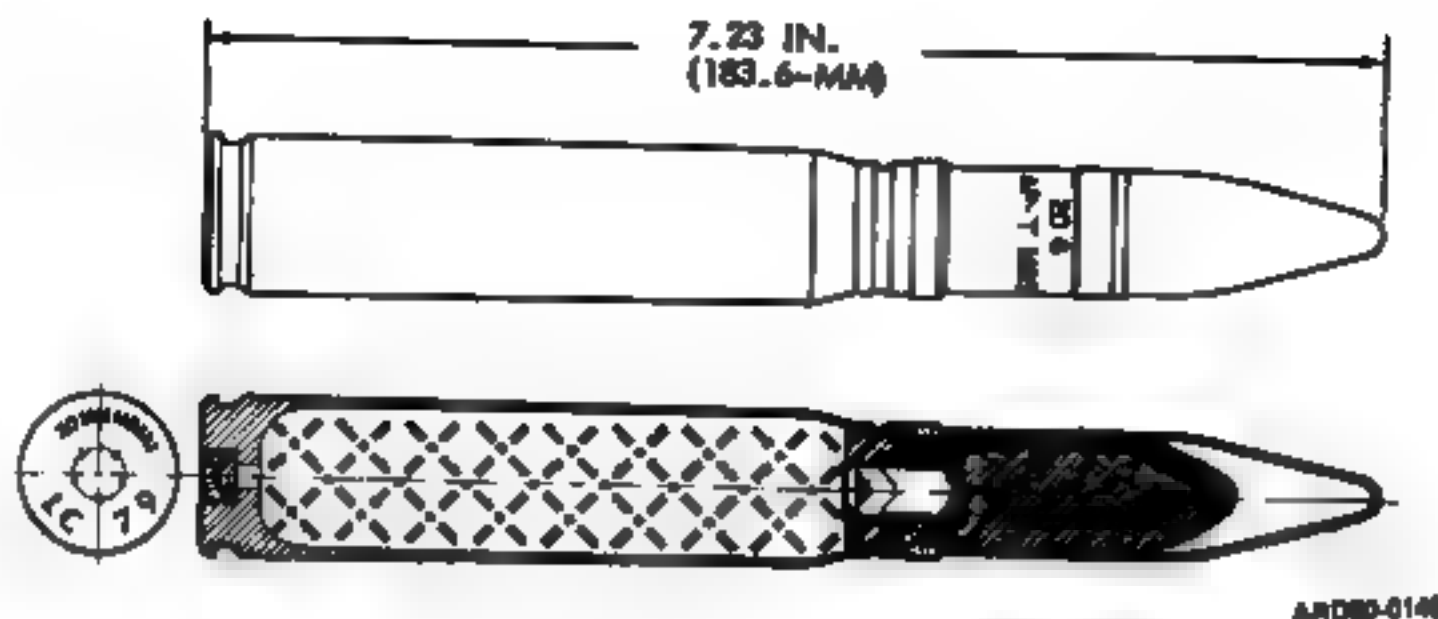
Shipping and Storage Data:

Quantity-distance class/SCG	1.46
Storage code	Class V
DOT shipping class	A
DOT designation	AMMUNITION FOR SMALL ARMS WITH EXPLOSIVE PROJECTILES
Drawing number	7259023

References:

TM 9-1005-286-10
TM 9-1005-299-12
TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, AP-T, M95



ARDD-0146

Type Classification:

CON - DTCM 36841

Use:

Gun, 20-MM, M3 and M24A1.

Description:

ARMOR PIERCING Cartridge with TRACER. The projectile is a solid shot type, made from bar or forged steel. A steel windshield is crimped to the forward part of the projectile body. The base of the projectile contains a red tracer composition.

Purpose:

When the primer is initiated, the propellant ignites. Ignition of the propellant ignites the tracer composition in the base of the projectile. The tracer burns the first 2.25 seconds of projectile flight, or an approximate range of 1,400 yards.

Tabulated Data:

DODAC	1305-A848
Weight	3990 grain
Length	7.23 inch
Tracer	R-284
Primer	Percussion
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	75-1-177A
Weight	470 grain

Performance:

Chamber pressure	51,000 psi
Velocity	2680 fps, 78 ft from muzzle

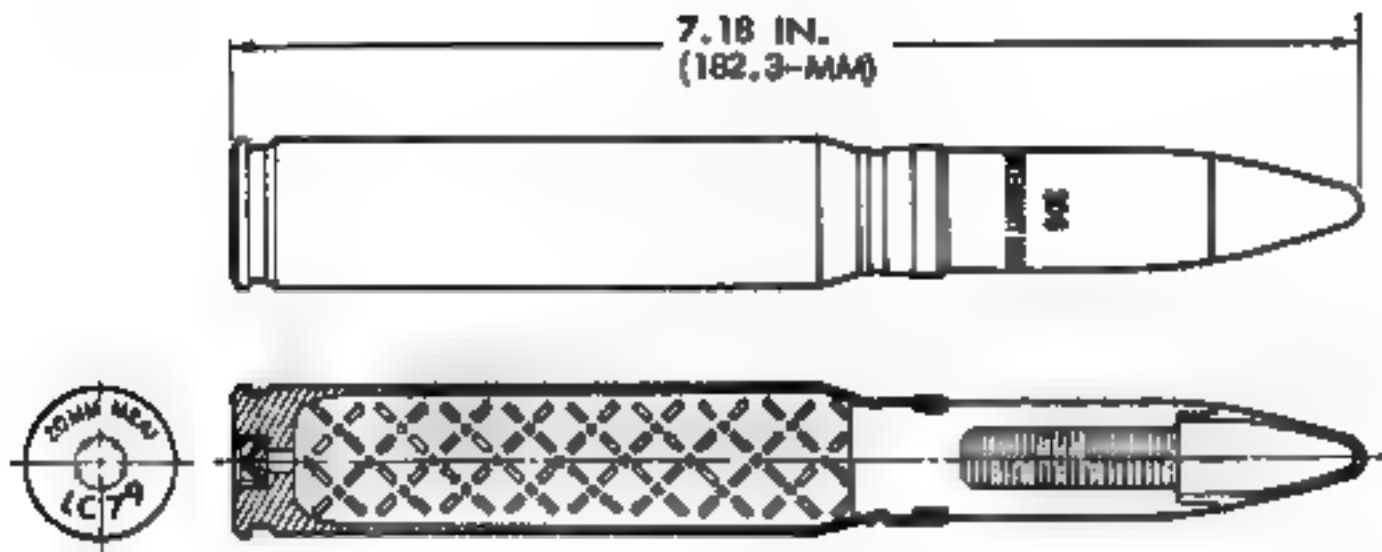
Shipping and Storage Data:

Quantity-distance class/SC6	-- 1/4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	75-1-177

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, INCENDIARY, M86



ARDE0-0147

Type Classification:

CON - OTCM 36841

Use:

Guns, 20-MM, M3 and M24A1.

Description:

INCENDIARY Cartridge. The body of the projectile is made from cold drawn steel. The projectile nose and body are filled with incendiary composition.

Purpose:

Impact with the target by the projectile produces compression of the heat and friction sensitive elements in the incendiary mixture causing ignition of the mixture.

Tabulated Data:

100M	1305-A776
Weight	3850 grain
Length	7.18 inch
Tracer	NA
Primer	Percussion
Fuze	NA

Explosive:

Type	NA
Weight	NA

Incendiary:

Type	I 136
Weight	3.92 ounce

Propellant:

Type	75-1-178A
Weight	470 grain

Performance:

Chamber pressure	51,000 psi
Velocity	2680 fps. 78 ft from muzzle

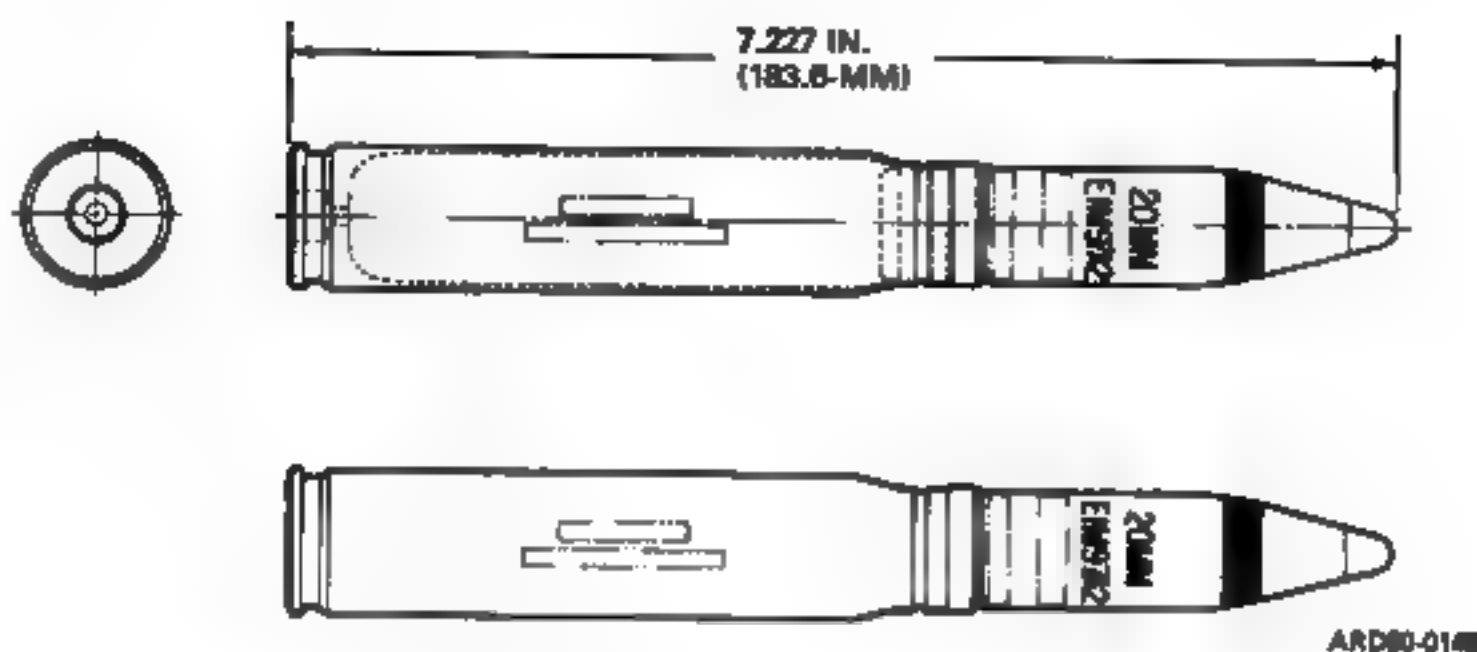
Shipping and Storage Data:

Quantity-distance class/SCB	-- 1.26
Storage code	Class V
DOT shipping class	A
DOT designation	AMMUNITION FOR SMALL ARMS WITH INCEN- DIARY PRO- JECTILES
Drawing number	75-1-178

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, HEI, M97A2

Type Classification:

Std - AMTC 4376

Use:

Gun, 20-MM, M24A1.

Description:

HIGH EXPLOSIVE with **INCENDIARY** Cartridge. The projectile has a hollow body filled with an incendiary composition and a high explosive (RDX). The base of the projectile has a base cover and the forward end has a point detonating fuze.

Purpose:

When the primer is initiated, the propellant ignites. Ignition of the propellant provides hot gases to propel the projectile from the weapon. Upon impact the PD fuze functions initiating the HE filler and dispersing the incendiary composition.

Tabulated Data:

DODAC	1305-A845
Weight	4000 grains
Length	7.227 inch
Tracer	NA
Primer	Electric M52A3B1
Fuze	PD

Explosive:

Type ----- H 761

Weight ----- 120 grain

Propellant:

Type ----- WC 875 or IMR

Weight ----- 7013

Weight ----- MBR

Performance:

Chamber pressure ----- 51,000 psi

Velocity ----- 2680 fps,
78 ft from
muzzle

Shipping and Storage Data:

Quantity-distance class/SCB -- 1.2E

Storage code ----- Class V

DOT shipping class ----- A

DOT designation ----- AMMUNITION

FOR SMALL

ARMS WITH

EXPLOSIVE

PROJECTILE

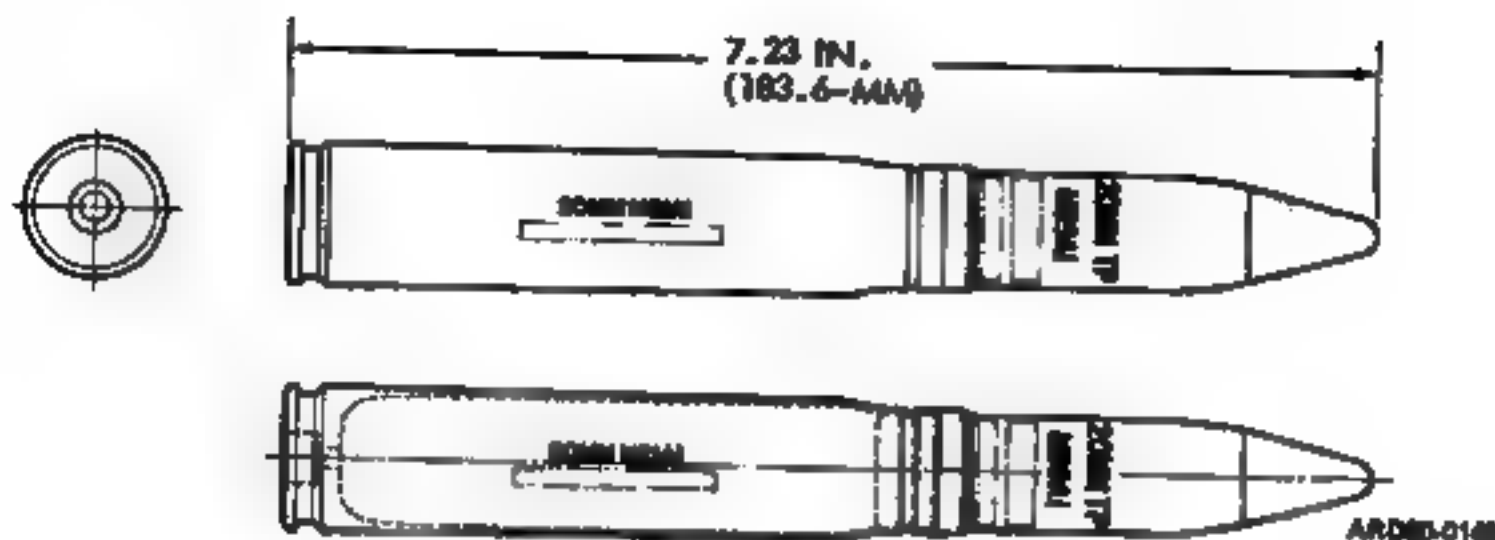
Drawing number ----- 7259063

References:

TN 9-1300-206

SB 700-20

CARTRIDGE, 20-MM, TP, M24A1



Type Classification:

Std - OTCH 37403

Use:

Gun, 20-MM, M24A1.

Description:

The target projectile cartridge contains a hollow, inert projectile which has a cavity to control the weight. The aluminum nose is swaged to the body.

Purpose:

This cartridge is used for training, gun testing and gun system function tests. The projectile is inert; therefore no specific function takes place except target penetration.

Tabulated Data:

DODAC	1305-A647
Weight	4000 grains
Length	7.23 inch
Tracer	NA
Primer	Electric
	M52A3B1
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incandary:

Type	NA
Weight	NA

Propellant:

Type	IMR 7013
	or WCB75
Weight	500 grains

Performance:

Chamber pressure	51,000 psi
Velocity	2680 fps,
	78 ft from
	muzzle

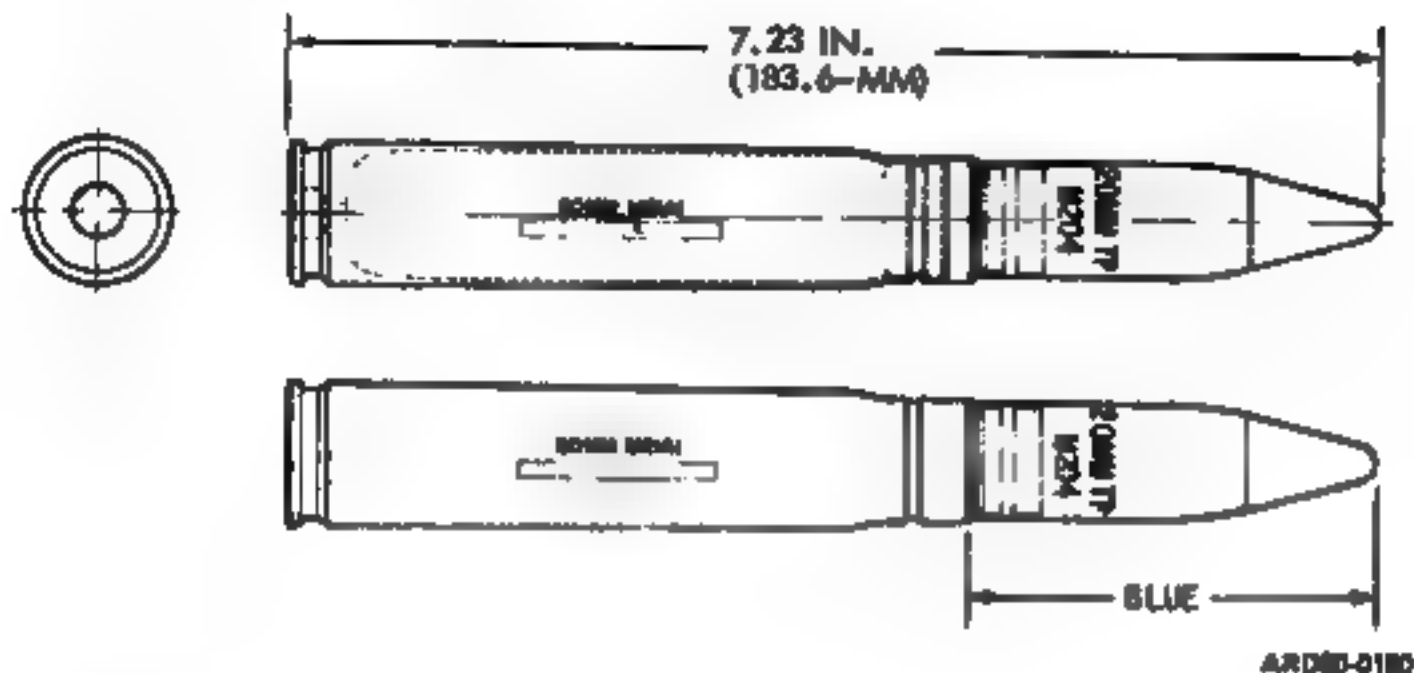
Shipping and Storage Data:

Quantity-distance class/SCG	1.4C
Storage code	Class V
DOT shipping class	C
DOT designation	SMALL ARMS
	AMMUNITION
Drawing number	7258849

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, TP, M204

Type Classification:

Std - AMCTC 4762

Use:

Gun, 20-MM, M3 and M24A1.

Description:

Target-PRACTICE Cartridge. The target practice cartridge has a blue painted projectile. The body has a cavity to control the weight and the aluminum nose is swaged to the body.

Purpose:

This cartridge with inert projectile is used in training, gun testing, and gun system function testing. No specific function takes place upon impact except target penetration.

Tabulated Data:

DODAC	1305-A777
Weight	4000 grains
Length	7.23 inch max
Tracer	NA
Primer	Percussion, M36A2
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type ----- NA

Weight ----- NA

Propellant:

Type ----- MC 875 or IMR 7013

Weight ----- MBR

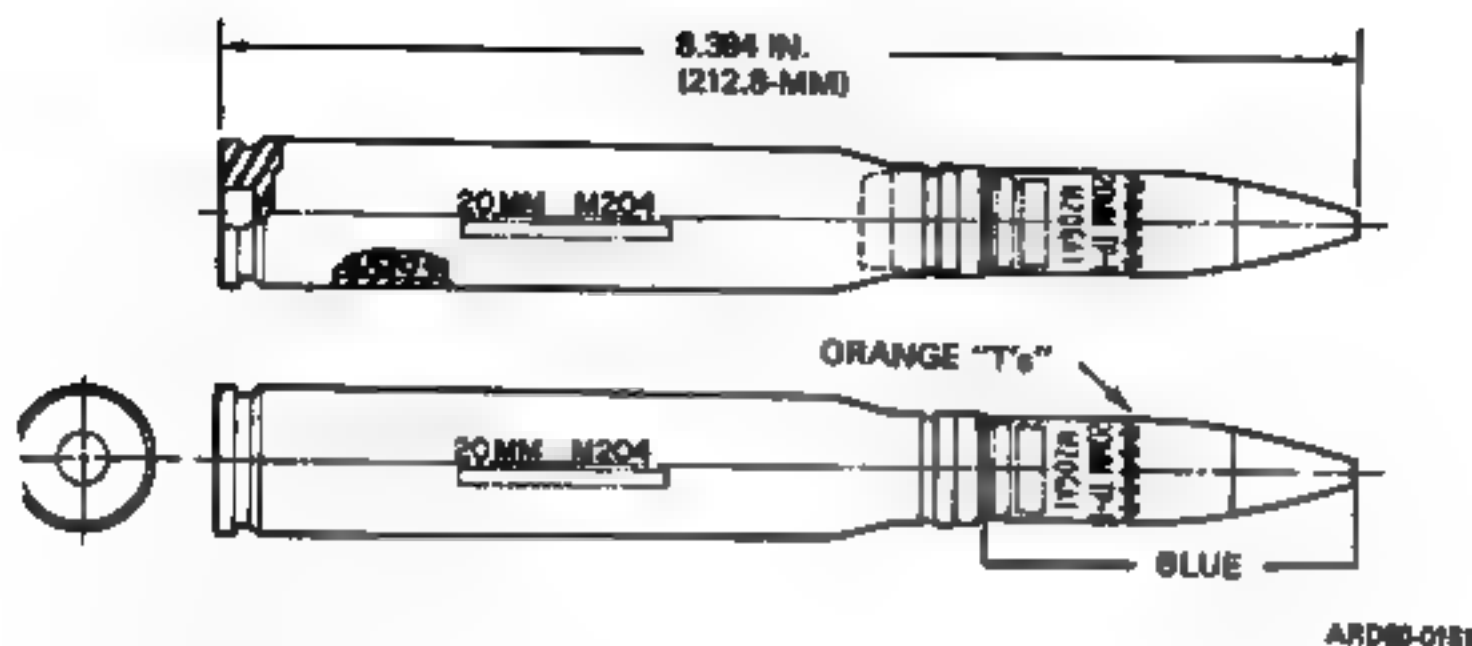
Performance:Chamber pressure ----- 51,000 max
(copper)Velocity ----- 2680 ±ft/sec
at 78 ft from
muzzleShipping and Storage Data:

Quantity-distance class/SCB	1.4C
Storage code	Class Y
DOT shipping class	C
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7259106

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, TP-T, M206A1



ARD80-0181

Type Classification:

Std - AMCTC 4762

Use:

Gun, 20-MM, Automatic, M139.

Description:

Target Practice-Tracer Cartridge has a blue painted projectile body with a row of orange T's at the front of projectile body.

Purpose:

Used in training and operation of gun systems with tracer characteristics for visual sighting to target.

Tabulated Data:

DODAC	1305-A790
Weight	4886 grains
Length	8.384 inch
Tracer	R-284
Primer	Percussion,
	MTM
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type CR 8325

Weight MBR (585-605 grains)

Performance:Chamber pressure 54,000 max
(copper)Velocity 3430 \pm 50 ft
at 78 ft from
muzzleShipping and Storage Data:

Quantity-distance class/SCB -- 1.4C

Storage code Class V

DOT shipping class C

DOT designation AMMUNITION
FOR SMALL
ARMS

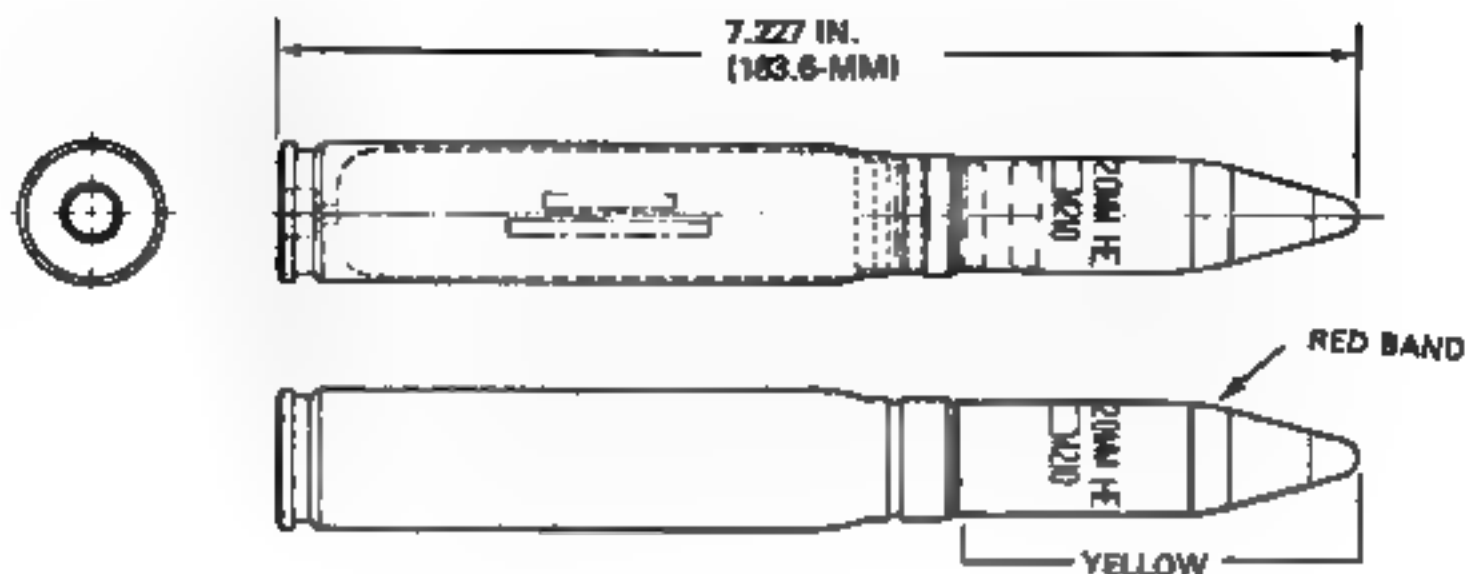
Drawing number 10542666

References:

TM 9-1300-206

SB 700-20

CARTRIDGE, 20-MM, HEI, M210



ARD80-01B2

Type Classification:

Std - AMCTC 5433

Use:

Gun, 20-MM, M3 and M24A1.

Description:

HIGH EXPLOSIVE with Incendiary Cartridge. The High Explosive Incendiary cartridge has a yellow painted projectile body with a red band, approximately 1/4 inch wide, at forward end. The projectile has a steel body with a cavity filled with RDX and aluminum and a point detonating bore-safe fuze.

Purpose:

The projectile fuze arms in flight. At time of impact, the fuze detonates the projectile causing fragmentation of the body with an incendiary effect. Effective against aircraft and other targets that are not heavily armed.

Tabulated Data:

DODAC	1305-AB63
Weight	4000 grains approx
Length	7.227 inch max
Tracer	NA
Primer	Percussion, M36A2
Fuze	Point Detonating, M505A3

Explosive:

Type ----- H 761

Weight ----- 120 grain

Propellant:

Type ----- WC 875 or IMR 7013

Weight ----- MBR

Performance:

Chamber pressure ----- 51,000 psi max (copper)

Velocity ----- 2680 \pm 50 ft at 75 ft from muzzleShipping and Storage Data:

Quantity-distance class/SCB -- 1.2E (0.4)

Storage code ----- Class V

DOT shipping class ----- A

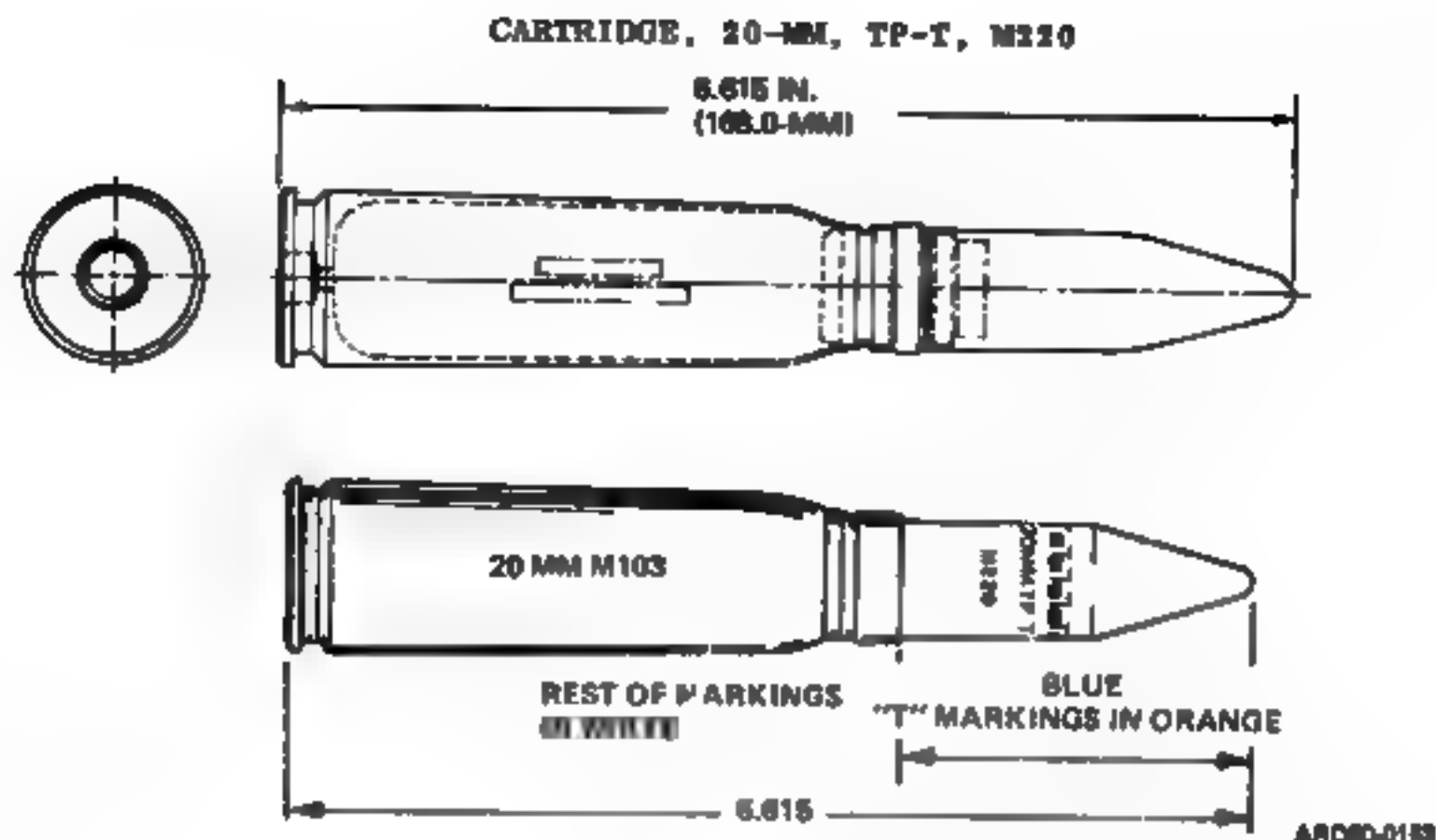
DOT designation ----- AMMUNITION
FOR SMALL
ARMED
EXPLOSIVE
PROJECTILES

Drawing number ----- 7259105

References:

TM 9-1300-206

SB 700-20

Type Classification:

Std - AMCT 7404

Use:

Gun, 20-MM, M39, M51 and M168.

Description:

TARGET PRACTICE with tracer cartridge. The cartridge is ballistically and physically identical to the M55A2 cartridge except that a tracer element has been added to the base of the projectile. The projectile is painted blue with orange colored markings.

Purpose:

This cartridge is for practice and training. The projectile is similar to the M56A3 projectile, but has no HEI charge and is assembled with a dummy fuze. The projectile does contain a tracer composition which burns visibly for a minimum of 1.9 seconds.

Tabulated Data:

Weight	1305-A651
Length	3935 grains
Tracer	6.615 inch
Primer	R505 or R403
Fuze	Electric
Explosive:	NA
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 870 or 872
Weight	MBR (585-605 grains)

Performance:

Chamber pressure	61,500 psi
Velocity	3380 fps, 78 ft from muzzle

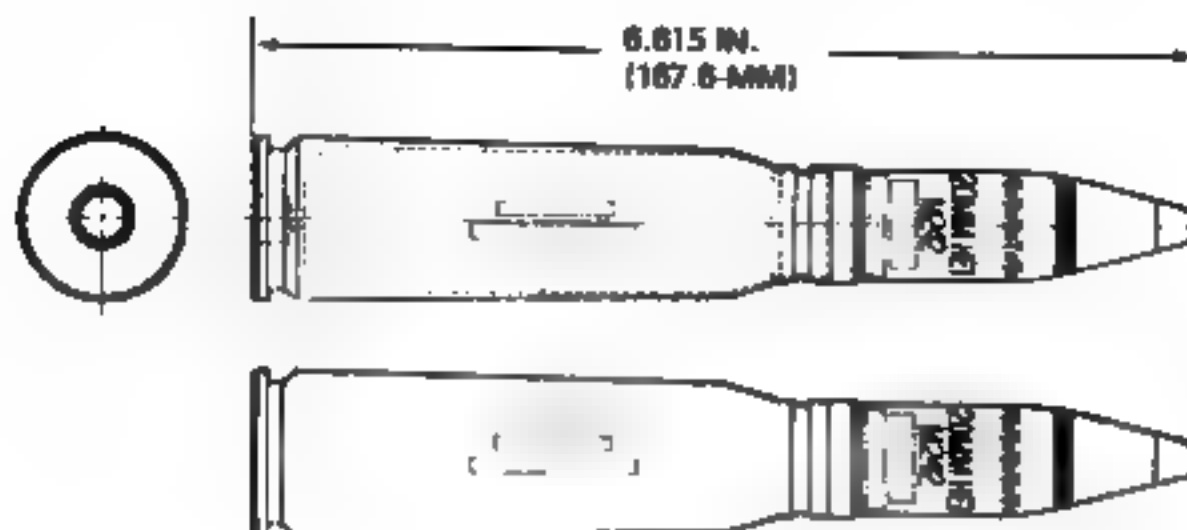
Shipping and Storage Data:

Quantity-distance class/SCG	-- 1.4C
Storage code	Class V
DOT shipping class	A
DOT designation	SMALL ARMS AMMUNITION
Drawing number	7259146

References:

TM 9-1005-286-10
TM 9-1300-206
SR 700-20

CARTRIDGE, 20-MM, HEI-T, M242



A1080 0154

Type Classification:

Std - AMCTC 6445

Use:

Gun, 20-MM, M39 and M61.

Description:

HIGH EXPLOSIVE-INCENDIARY with TRACER cartridge. The cartridge has the same basic structure as the M56A3 cartridge with the addition of a tracer element.

Purpose:

The projectile has the same function as the M56A3 HEI cartridge projectile. The tracer is ignited by the propellant when the round is fired.

Tabulated Data:

DODAC	1305-A659
Weight	3865 grains
Length	6.615 inch
Tracer	R505
Primer	Electric M52A3B1
Fuze	Point-Detonating M505A3
Explosive:	
Type	H 761
Weight	1465
Incendiary:	
Type	1 136
Weight	20 grain

Propellant:

Type	WC 870 or 872
Weight	1185 (585 or 605 grains)

Performance:

Chamber pressure	60,500 psi
Velocity	3380 fps,
	76 ft from muzzle

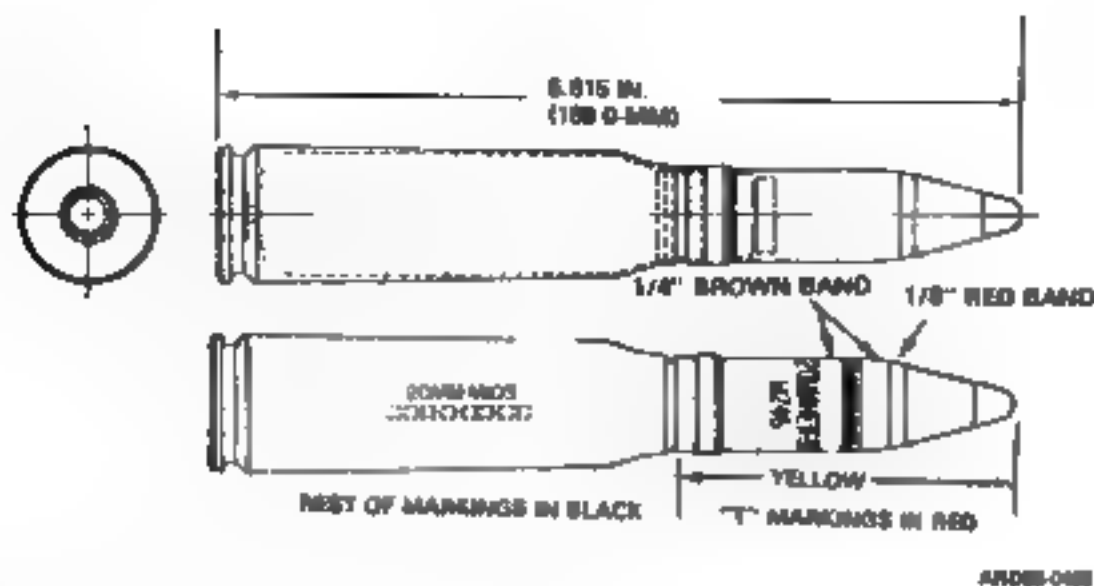
Shipping and Storage Data:

Quantity-distance class/SCG	1.2t (0.4)
Storage compatibility group	E
Storage code	Class V
DOT shipping class	■
DOT designation	AMMUNITION FOR SMALL ARMS WITH EXPLOSIVE PROJECTILES
Drawing number	725926A

References:

TM 9-1300-206
SB 700-20

CARTRIDGE, 20-MM, HEI-T-SD, M346

Type Classification:

Std - AMCTC 7251

Use:

Gun, 20-MM, M39, M61 and M168.

Description:

HIGH EXPLOSIVE Cartridge with Incendiary and Tracer A self-destruct feature is also included. The projectile is painted yellow with a brown band and a red band and "T" markings in red.

Purpose:

This cartridge is assembled with an M505A3 point detonating (PD) fuze. The projectile, in addition to the M505A3 fuze, consists of an HEI charge, self-destruct relay charge, and a tracer charge. These charges form the self-destruct chain. The tracer burns for about 3 to 7 seconds, whereupon the relay charge is ignited which detonates the HEI charge low order. If impact with a target occurs, prior to self-destruction, the M505A3 fuze causes the HEI charge to detonate high order. This cartridge is for use against aerial targets.

Explosive:

Type H 761
Weight 115 grain

Propellant:

Type WC 870
Weight MBR (585-605 grains)

Performance:

Chamber pressure 60,500 psi
Velocity 3380 fps,
50 ft from muzzle

Shipping and Storage Data:

Quantity-distance class/SCG -- 1.2E (0.4)
Storage compatibility group -- E
Storage code Class V
DOT shipping class A
DOT designation AMMUNITION
FOR SMALL
EXPLOSIVE
PROJECTILES
Drawing number 10542384

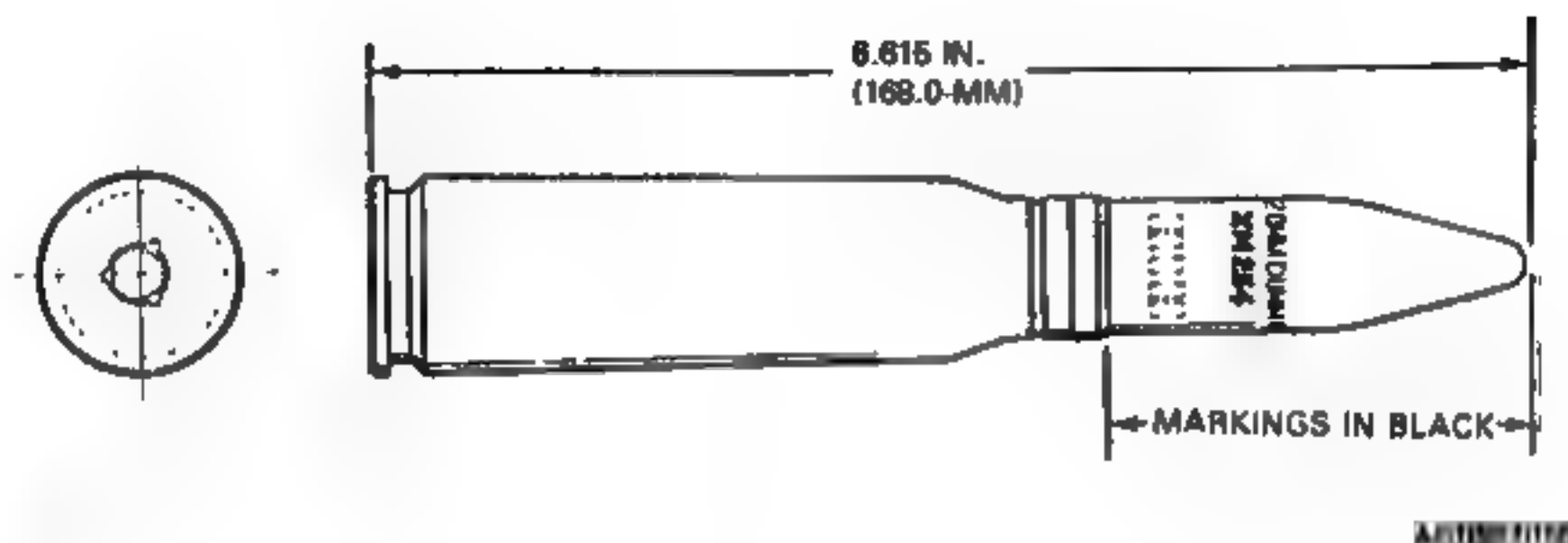
Tabulated Data:

DDAC 1305-A791
Weight 4070 grains
Length 6.615 inch
Tracer R505
Primer M52A3B1
Fuze Electric
Point-Detonating

References:

TM 9-1005-286-10
TM 9-1300-206
SB 700-20

DUMMY CARTRIDGE, 20-MM, XM154

Type Classification:

N/A

Use:

Gun, 20-MM, M39, M61, M139, M168, M195, XM197.

Description:

A Dummy Cartridge of plastic construction.

Purpose:

For training of crews, plastic material instead of steel, reduces wear on gun components and fire mechanisms.

Tabulated Data:

DODAC	1305-A895
Weight	3850 grain
Length	6.615 inch
Tracer	NA
Primer	NA
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	NA
Weight	NA

Performance:

Chamber pressure	NA
Velocity	NA

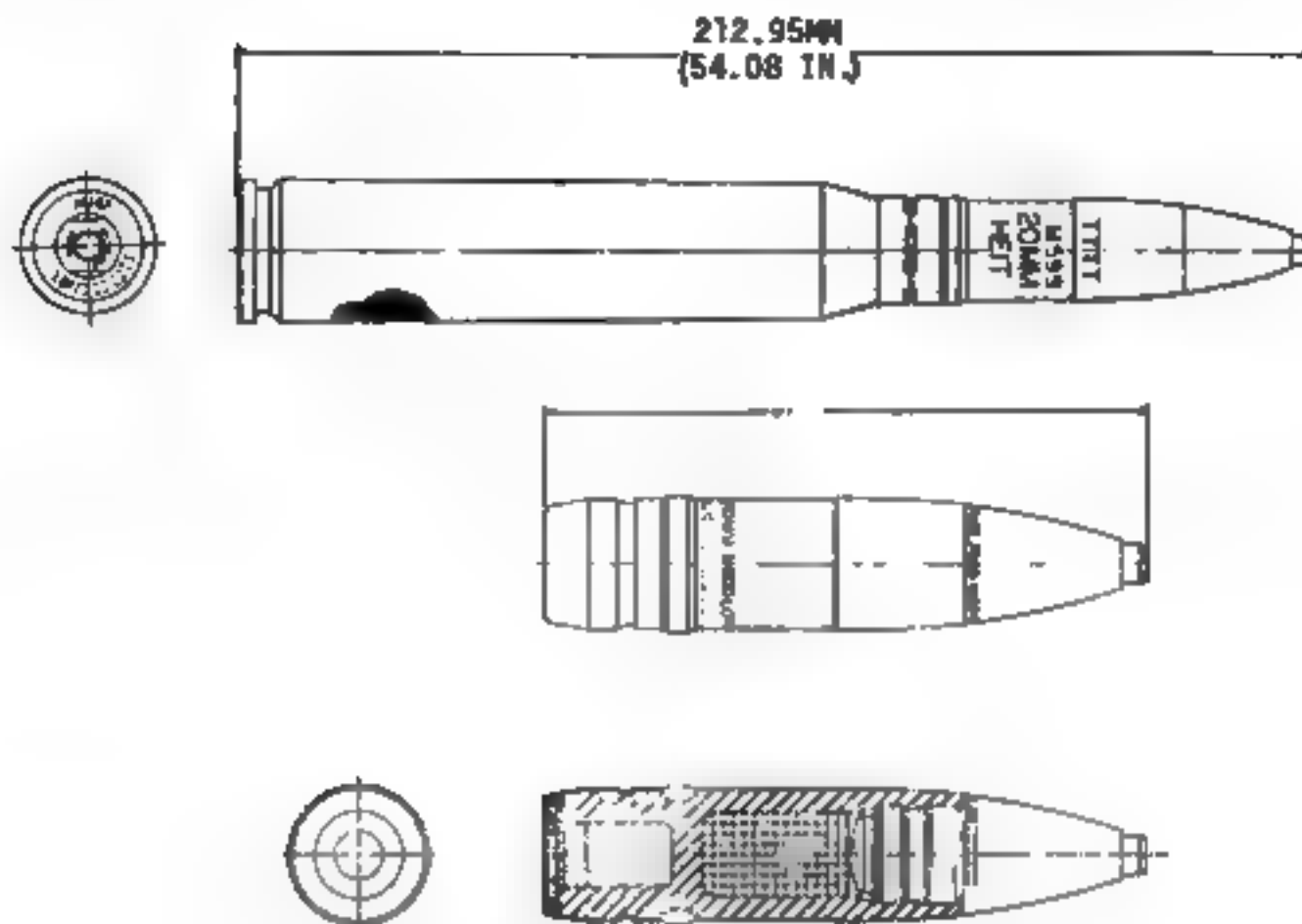
Shipping and Storage Data:

Quantity-distance class/SCG	NA
Storage code	NA
DOT shipping class	NA
DOT designation	NA
Drawing number	7259254

References:

TM 9-1005-246-24
TM 9-1005-286-10
TM 9-1005-299-12
TM 9-1300-206
SB 700-20

CARTRIDGE, 30MM: HEI-T, M599 FUZE PD SD M594



ARDED-2276

Type Classified:

STG AMCTC 6391

Use:

This cartridge is designed for use with the M139 gun.

Description:

High explosive - incendiary w/tracer cartridge M599 has a point detonating self destroying fuze M594. The projectile is a hollow body filled with 120 grams of HEI mixture with a tracer tablet at the base and the

point detonating self destructing fuze screwed onto the nose.

The body of the projectile is painted yellow with black markings, the "T's" encircling the ogive (signifying tracer) are painted red.

Purpose:

When fired the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile. The projectile shall function with high order detonation upon impact or if projectile does not impact on intended target within four to seven seconds a self-destruct mechanism will cause high order detonation of the projectile.

CARTRIDGE. 20MM: HRI-T M599 W/PUZE PD SD M594

Tabulated Data:

```

DODAC ----- 1305-A787
Type ----- MEI-T
Weight ----- 317 grams approx
Length ----- 212.95mm
Weight (empty) -----
Dimensions ----- 36.5mm (1 1/2" x
                    9/16") x 255.08
                    (9 39/64)
                    x 109.5mm
                    (4 15/16)
Cube ----- .01 meters or
              .35 cu ft
Drawing Number C/R ----- 10535816

```

Projectile: (steel)

Tracer -----	Tablet (1.17 grams)
Explosive (HEI-Mix)	120 grams
Fuze -----	P.D.S.D. M594 (aluminum)
Color -----	Yellow w/Red "T" band, black markings
Cartridge Case -----	M187, steel
Propellant -----	VTL-1375-502-52 gram
Primer percussion -----	M103

Performance:

Chamber pressure ----- 49,500 psi
Velocity ----- 3460 fps
1055 mps

Packing:

25 Cartridge, 20mm linked with M501 APIT, cartridges in ration w/ 3 M599 to 2 M601 and M528 stripping and storage container two shipping and storage containers (50 cartridges) per a wirebound box.

Shipping and Storage Data:

```
Quantity-Distance Class
/SCG ----- 1.2E
Storage Code ----- IV
DOT designation ----- AMMUNITION FOR SMALL
                        ARMS WITH EXPLOSIVE
                        PROJECTILE
```

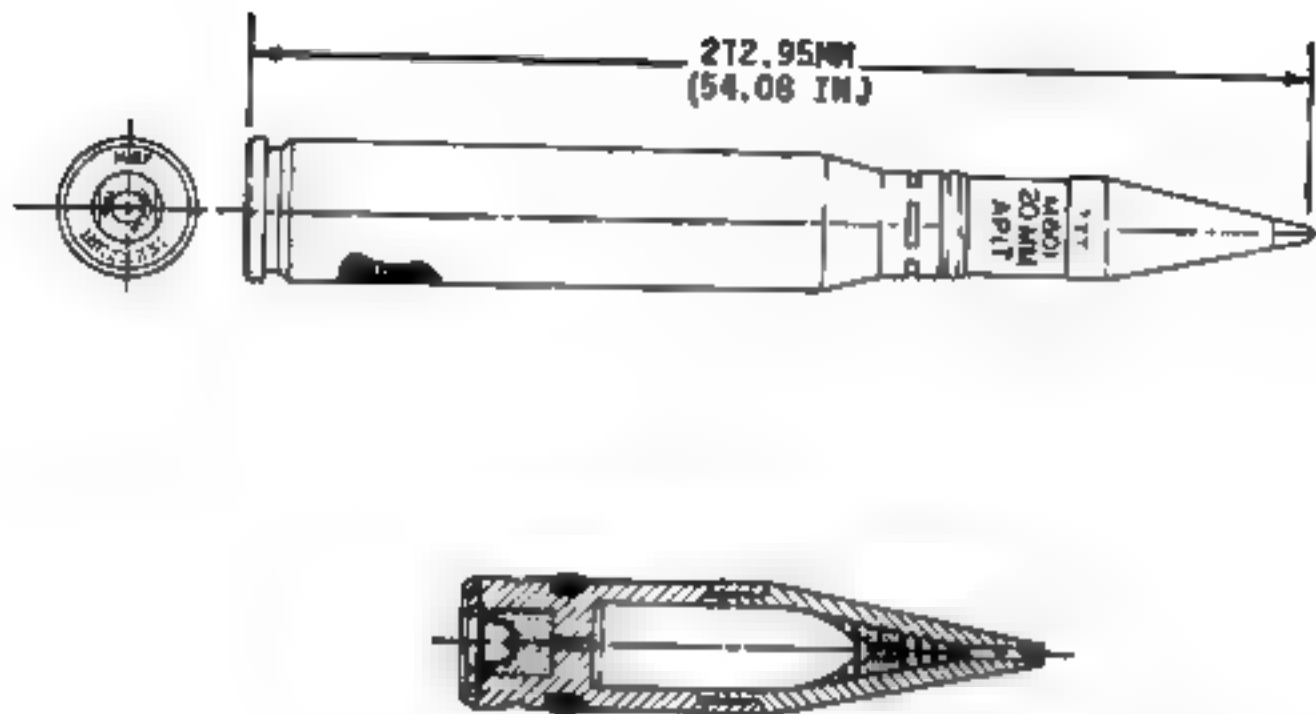
M528 Shipping & Storage Container:

Material ----- Steel
Weight (tactically packed)

Reference:

DARCOM 700-3-2
TN 9-1300-206

CARTRIDGE, 20MM: API-T M601



ARD80-0217

Type Classification:

STD AMCTC 4762

Use:

This cartridge is designed for use with the M139 gun.

Description:

Armor Piercing Incendiary w/tracer cartridge M601. The Tungsten-Carbide core is the main part of the projectile, and is the penetrator. The ballistic cap (the ogive) contains an incendiary pellet. A tracer tablet is at the base of the projectile. The projectile body is painted black with white markings and the "T" encircling the ogive (signifying tracer) are painted red.

Purpose:

When fired the weapon firing pin initiates the primer which ignites the propelling charge. Gases produced by the burning propellant propel the projectile. Upon impact with the target the nose/ogive ruptures and the incendiary composition ignites on exposure to the air.

Tabulated Data:Complete Round:

DODAC	1305-A786
Type	APDS-T
Weight	310 grams
Length	212.95 mm
Cannon used with -M139	

Projectile: (111 grams)
Penetrator (core)- Tungsten Carbide

Body ----- Aluminum alloy
22.5 gram

Windshield ----- Aluminum 9.4
grams

Incendiary ----- XM71 Pellet
.45 grams

Tracer ----- Tablet 1.17
grams

Fuze ----- M/I

Color ----- Black w/white
marking w/"T"
red band

Cartridge Case ----- M187 Steel

Propellant: (YTL 1375-502)

Weight ----- 53 grams
approx

Primer (percussion) - M103

Performance:

Chamber pressure ----- 49,500 psi

Velocity ----- 3610 fps,
1101 mps

Packing:

25 cartridge, 20mm linked with M599 HEI-T,
cartridges in a ratio of 3 M599 to 2 M601 in
shipping and storage container M528. Two containers
in a wrap around crate

Shipping & Storage Data:

Quantity-Distance Class/SCB -- 1,40

Storage Code ----- IV

DOT Shipping Class ----- A

DOT designation ----- AMMUNITION FOR
SMALL ARMS
WITH
INCENDIARY
PROJECTILE

M528 Shipping & Storage Container:

Material ----- Steel

Weight (tactically packed)

Weight (empty) -----

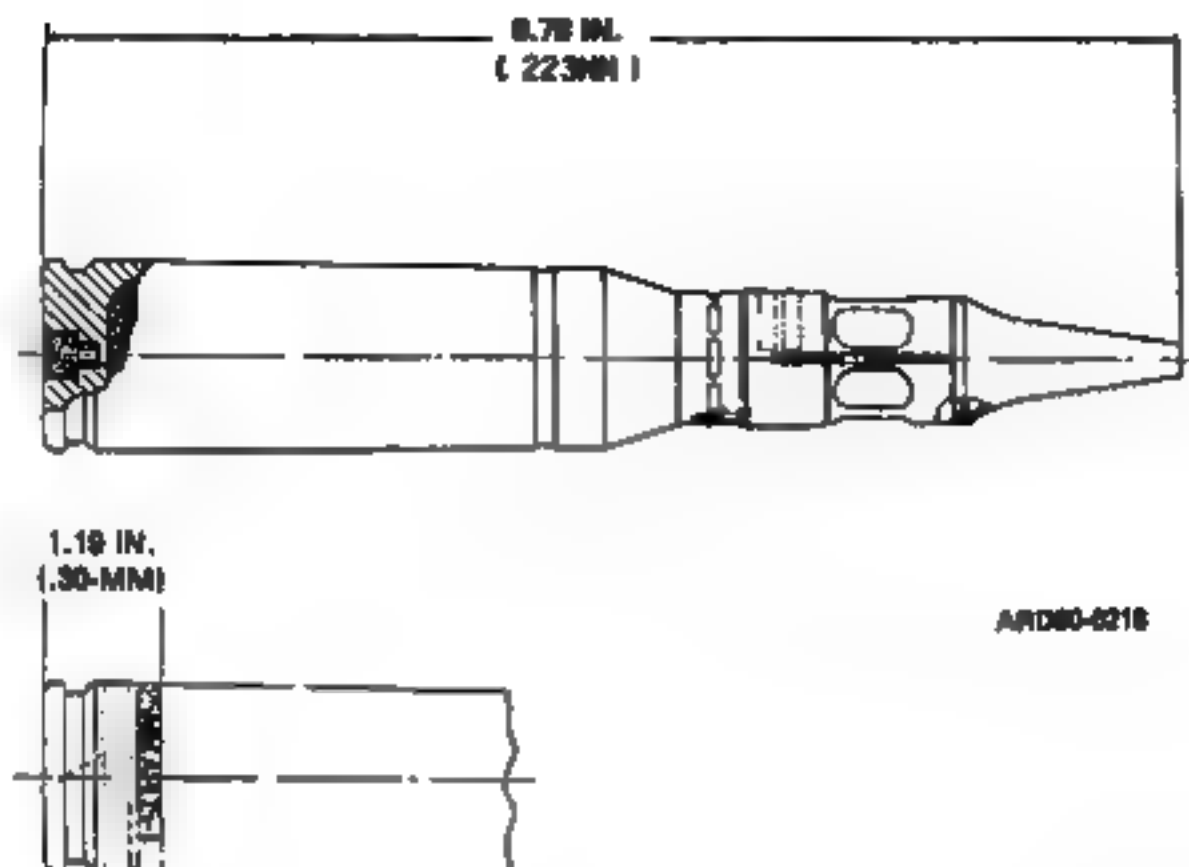
Dimensions ----- 369.9mm
(14 9/16")
x 244.08mm
(9 39/64")
x 109.5mm
(4 15/16)

Cube ----- .01 meters or
.35 cubic
ft

Drawing Number C/R ----- 10535805

References:

DARCOM 700-3-2
TM 9-1300-206

CARTRIDGE, 25MM: APDS-T, M791

APDS-T M791

Type Classification:

STD - MSR 12796010

Use:

This cartridge is designed to be fired from the 25mm automatic cannon M242 and penetrate lightly armored vehicles.

Description:

Armor piercing discarding Sabot with tracer. This cartridge is a fixed type, percussion primed 25mm ammunition, intended as the armor piercing service round to successfully engage lightly armored vehicles. The cartridge consists of a sabot encapsulated projectile body, crimped to steel cartridge case containing 98 grams of extruded propellant, M115 percussion primer and booster pellet. The projectile body consists of a solid tungsten alloy penetrator, pressed on aluminum windshield, pressed-in tracer pellets, molded discarding-type nylon sabot, staked aluminum base and pressed-on polyethylene nose cap.

Purpose:

When fired the weapon firing pin initiates the primer which ignites propelling charge. Gases produced by the burning propellant propel the projectile from the cannon and ignites the tracer. Setback, centrifugal and air pressure forces cause the sabot to discard upon leaving the gun tube. The penetrator (core) is spin stabilized and penetrates the target solely by kinetic energy.

Tabulated Data:**Complete Round:**

DODAC	1305-A974
Type	APDS-T
Weight	458± 15 grams
Length	223mm (8.70 in.)
Cannon used with	M242

Projectile:

Penetrator (core) -----	Tungsten-Alloy
Sabot -----	Nylon, Aluminum
Nose cap -----	Polyethylene
Tracer -----	N/A
Explosive -----	N/A
Fuze -----	N/A
Color -----	Black w/white markings
Cartridge case -----	C1030 Steel

Propellant:

Type -----	Radford AP225
Weight -----	98gm (.221 lb)
Primer Percussion -----	M15

Performance:

Chamber pressure -----	56,000 psi
Range -----	15000 m
Muzzle Velocity -----	1330m/s, 4370 fps

Shipping and Storage Data:

Quantity-Distance Class/SCG --	1.2E
Storage Code -----	Class IV
DOT shipping class -----	A
DOT Designation -----	AMMUNITION FOR SMALL ARMS WITH INCENDIARY PROJECTILE

Packing:

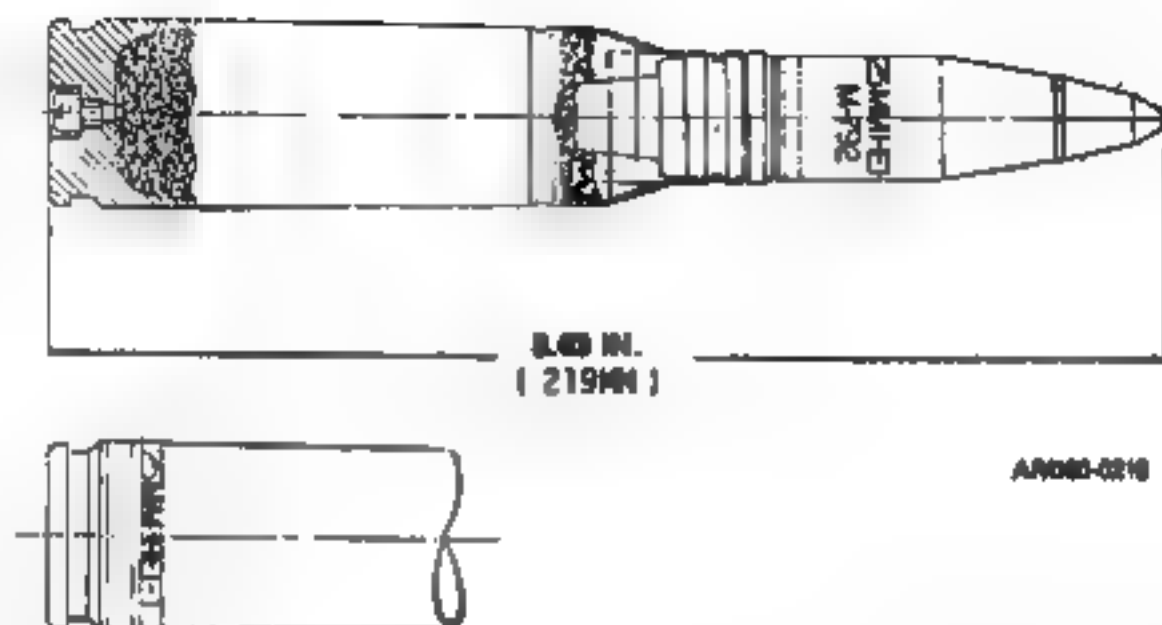
Tactical packing unit 30 linked cartridge in two-15 round belts packed nose to nose with 2 plastic separators in plastic shipping & storage container M621.

M621 Shipping & Storage:

Material -----	Polypropylene Plastic
Weight (tactical -----	21.6g (48
ly packed) -----	lbs)
Weight empty -----	3.6g (8
Dimensions -----	lbs)
	350mm (13.8
	in. x 350mm
	(13.8 in x
	140mm) 5.5
	in.c)
Drawing Number C/R -----	12013533

References:

DARCOM 700-3-2
TM 9-1300-206
SO 1305/30-1L

CARTRIDGE, 25MM: HEI-T, M792 W/FUZE PDSD M758**Type Classification:**

STD M5R12796010

Use:

This cartridge is designed to be fired from the M242 Cannon for destruction of unarmed material.

Description:

The M792 high explosive incendiary with tracer cartridge is a fixed type, percussion primed 25mm munition, intended as the high explosive service round to successfully engage unarmored ground targets. The cartridge consists of a HEI filled, one piece projectile body, crimped to a steel cartridge case containing 90 grams of ball propellant, M115 percussion primer and booster pellet. The projectile body consists of a hollow C1045 steel body, screwed on M758 fuze, swaged iron rotating band, 32 grams of H-761 HEI mix and pressed-in tracer pellets.

Purpose:

When fired, the primer is mechanically initiated by the weapon firing pin. The primer output ignites the booster pellet which in turn ignites the propellant charge. Projectile is launched at a velocity of 1100 meters/second, achieving a maximum effective range of 3000 meters.

Upon impact the fuze functions and the HEI filler detonates dispersing the incendiary mixture.

Tabulated Data:**Complete Round:**

DDAAC	-----	1305-A975
Type	-----	HEI-T
Weight	-----	501gm (1.11 lb)
Length	-----	219mm (8.63 in.)

Projectile:

Body	-----	C1045 steel
Tracer	-----	Pellet
Explosive (HEI Mix)	-----	4761 - 32 gm
Fuze	-----	PDSD: M758
Color	-----	Yellow w/red band & black markings
Cartridge Case	-----	C1030 Steel

Propellant:

Type	-----	WC890
Weight	-----	90 gms
Primer Percussion	-----	M115

Performance:

Range ----- 3000m
Muzzle Velocity ----- 1100 m/s,
3610 fps

Shipping and Storage Data:

Quantity-Distance Class/SCB- 1.2E
Storage Code ----- Class IV
DOT Shipping Class ----- A
DOT Designation ----- AMMUNITION FOR
CANNON WITH
EXPLOSIVE
FRAGILE

Packing:

Tactical packing unit 30 linked cartridge in two - 15 round belts packed nose to nose with 2 plastic separators in plastic shipping and storage containers M521.

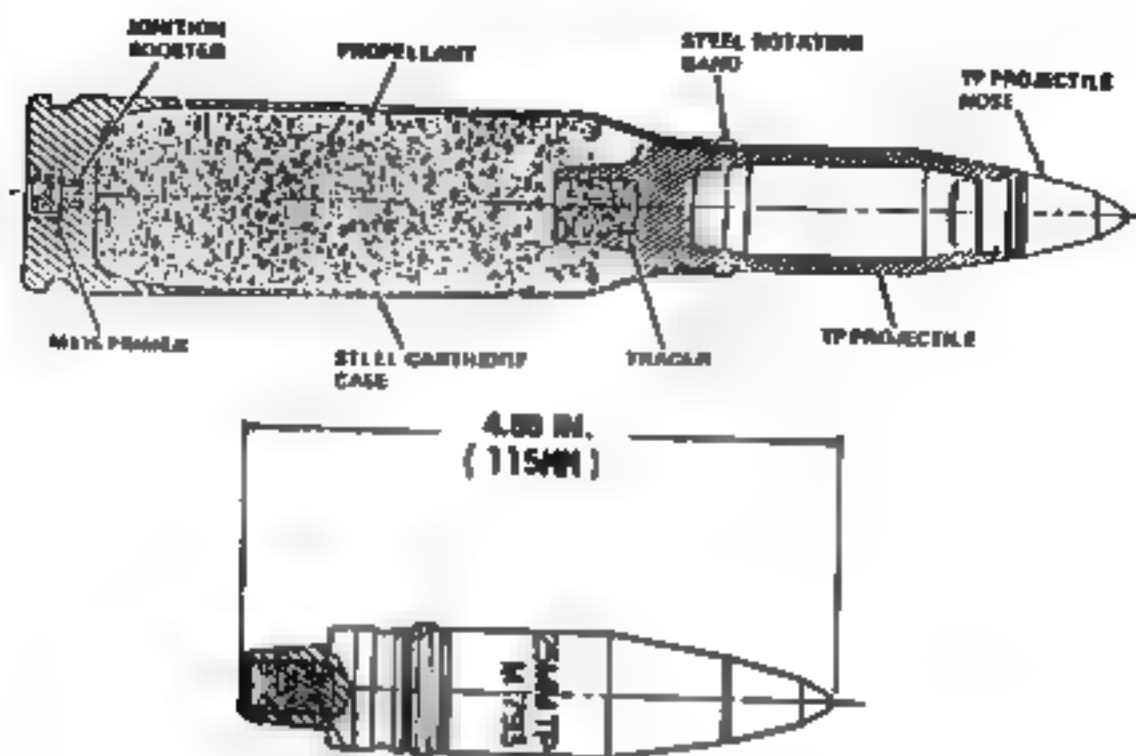
M521 Shipping & Storage Container:

Material ----- Polypropylene
Weight (tactical ----- 21.6g (48
celly packed) ----- lbs)
Weight empty ----- 3.6g (8 lbs)
Dimensions ----- 350mm (13.8
in.) x 350mm
(13.8 in.) x
140mm (5.5 in.)
Drawing number ----- 12013230

References:

DARCOM 700-3-2
TM 9-1300-206

CARTRIDGE, 25MM: TP-T, M793



AR090-0220

Type Classification:

STD - MSR 12796010

Use:

This cartridge is a Target Practice round used in training, gun testing and gun system functioning for the 25mm automatic cannon M242.

Description:

Target practice w/tracer cartridge M793 is a fixed type, percussion primed 25mm munition, intended as a substitute for the HEI-T service round for target practice in training, gun testing, and gun system functioning. The cartridge consists of a hollow, two piece projectile body, crimped to a steel cartridge case containing 90 grams of ball propellant M115 percussion primer and booster pellet. The projectile body consists of a hollow C1035 steel body screw-on steel nose piece, swaged iron rotating even band and pressed in tracer pellets.

Purpose:

This cartridge functions the same as the M792 except upon impact the projectile is inert.

Tabulated Data:Complete Round:

DDAC	Y306-A976
Type	TP-T
Weight	601gm (1.11 lb)
Length	219mm (8.63 in.)

Projectile:

Body	C1035 steel/12/14
Tracer	Pellet
Explosive	N/A
Fuze	N/A
Color	Blue w/white markings
Cartridge Case	C1030

Propellant:

Type	WC890
Weight	90gm (.21 lb)
Primer Percussion	M115

Performance:

Range	
Muzzle velocity	1100m/s, 3610 fps

Shipping and Storage Data:

Quantity-Distance Class/SCB - 1.4C
 Storage Code ----- 11 8
 DOT shipping class ----- B
 DOT Designation ----- AMMUNITION FOR
 CANNON WITH
 EMPTY
 PROJECTILE

Packing:

Tactical packing unit 30 linked cartridge in
 two 15 round belts packed nose to nose with 2
 plastic separators in plastic shipping and
 storage container M521.

M521 Shipping and Storage Containers:

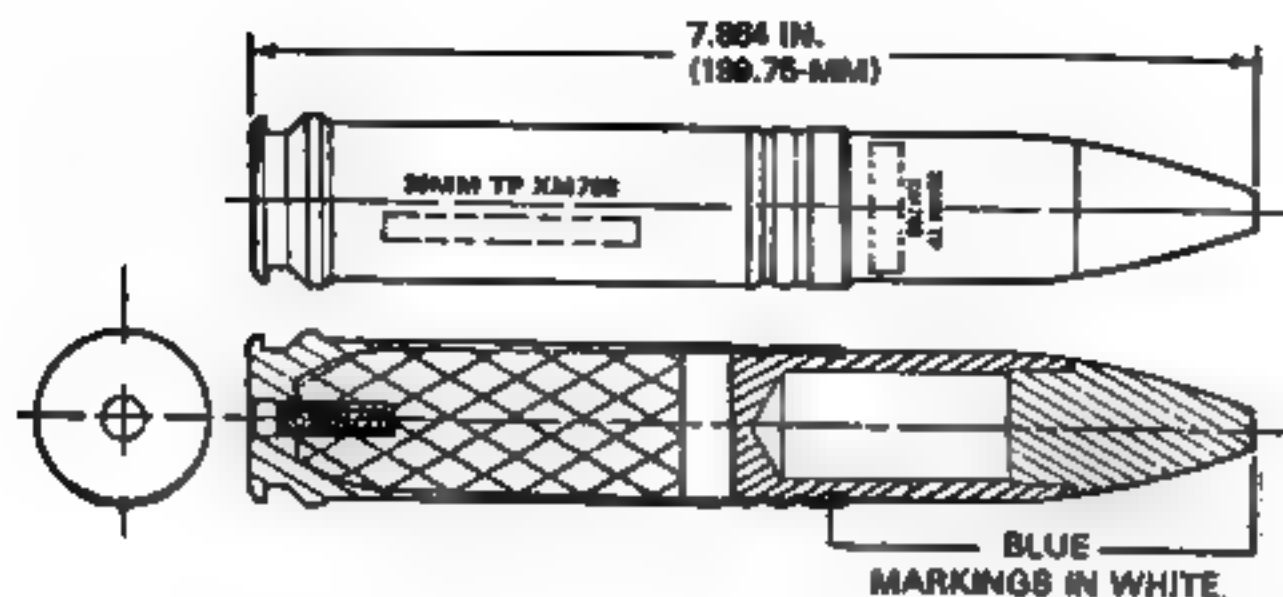
Material ----- Polypropylene
 Plastic
 Weight (Tacti-
 cally packed) ----- 21.6g (48 lbs)
 Weight empty ----- 3.6g (8 lbs)
 Dimensions ----- 350mm (13.8
 in.) x 140mm
 (5.5 in.)

Drawing Number C/R ----- 12013224

References:

DARCON 700-3-2
 TM 9-1300-206

CARTRIDGE, 30MM: TP, XM708



ARDBD-0157

Type Classification:

LP-MSR 04796009

Use:

30MM Automatic Cannon - XM230 (US)
 ADEN MK IV (NATO)
 DEFA 552/553 (NATO)

Description:

The Target Practice Cartridge has a blue painted projectile with white markings. The inert/solid projectile is a three piece assembly consisting of steel body w/cavity, rotating band, and aluminum nose piece. Cartridge case is aluminum.

Purpose:

This cartridge is used in target practice. It consists of an inert, solid projectile without a fuze. No function takes place except penetration of target.

Tabulated Data:

DODAC	To be assigned
Weight	5371 grain (348 g)
Length	7.864 inch (199.75 mm)
Tracer	NA
Primer	Electric
Fuze	NA
Explosive:	
Type	NA
Weight	NA

Incendiary:

Type NA

Weight NA

Propellant:

Type WC 785

Weight MBR

Performance:

Chamber pressure	40,600 to 44,950 psi
	avg. (280 -310 MPa)
Velocity	2640 fps (805 MPS)

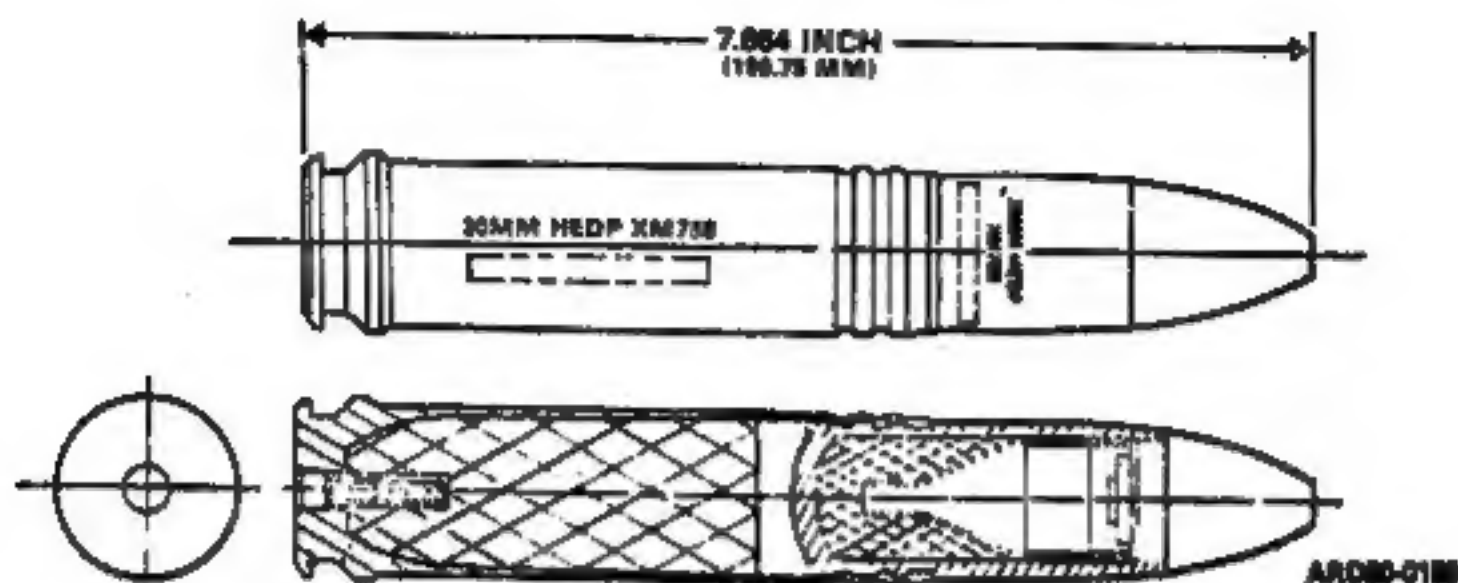
Shipping and Storage Data:

Quantity-distance class/SCB ..	1.4C
Storage code	Class Y
DOT shipping class	B
DOT designation	AMMUNITION FOR CANNON WITH SOLID PROJECTILES
Drawing number	28114038

References:

TM 9-1300-206
 SB 700-20

CARTRIDGE, 30MM: HEDP XM 789



Type Classification:

None

Use:

30MM Automatic Cannon - XM230 (US)
ADEM MK IV (NATO)
DEFA 552/553 (NATO)

Description:

The High Explosive Dual Purpose Cartridge consists of a steel projectile body loaded with HMX explosive and spin compensated shaped charge liner, a point detonating bore safe fuze and aluminum cartridge case.

Purpose:

The projectile fuze arms in flight. Upon impact the fuze initiates the projectile explosive filler. Detonation of the filler charge collapses the shaped charge liner resulting in the formation of an armor-piercing jet. In addition, main charge detonation produces fragmentation of the projectile body resulting in antipersonnel effects in target vicinity.

Tabulated Data:

DODAC	1305-8107
Weight	5371 grain (348 g)
Length	7.864 inch (199.75 mm)
Tracer	NA
Primer	Electric
Fuze	Point Detonating XM714E6

Explosive:

Type	PBXN-5
Weight	340 grain (22 g)

Incendiary:

Type	NA
Weight	NA

Propellant:

Type	WC 785
Weight	NBR

Performance:

Chamber pressure	40,000 to 44,950 psi avg. (280 -310 MPa)
Velocity	2640 fps (805 MPS)

Shipping and Storage Data:

Quantity-distance class/SCG	1.2E (0.4)
Storage code	Class V
DOT shipping class	A
DOT designation	AMMUNITION FOR CANNON WITH EXPLOSIVE PROJECTILES
Drawing number	28114062

References:

TM 9-1300-206
SB 700-20

lead assembly. The fuze functions under conditions of direct impact, graze impact or self-destruct (non-impact). Direct impact with the target causes superquick function of the fuze due to the crushing action of the nose probe. The nose probe is driven into the piston assembly, moving it rapidly rearward. The firing pin, as part of the piston assembly, is thereby driven into the detonator and the explosive train is initiated. Function at low graze angles can occur in two ways. On soft targets where the projectile tends to enter the target, the nose probe is crushed, driving the piston firing pin into the detonator, on low angle or and firing pin into the detonator, on low angle or graze impacts on hard targets, deceleration of the projectile and spin decay occurs. Spin decay reduces the centrifugal forces acting on the self-destruct balls and inertial force acts on the body assembly due to projectile deceleration. This coupled with the stored energy of the set-back spring, overrides, the force exerted by the self-destruct balls and the body assembly is driven forward rapidly. The detonator contacts the firing pin and begins initiation of the explosive train. If no contact is made with a target, the fuze will cause the projectile to function by self-destruct action after a predetermined flight time. Projectile spin decay reduces the centrifugal force acting on the self-destruct balls, the stored energy in the setback spring overrides the holdback force of the balls and forces the body assembly forward to drive the detonator into the firing pin. Initiation of the explosive train occurs, and the projectile is detonated while still in flight.

Tabulated Data:

Fuze M758:

DODAC	To be assigned
Length (Max)	3.60mm (1.418 in.)
Weight (Approx)	18.56gm (0.041 lb)
Diameter (Max)	1.68mm (0.660 in.)
Center of Gravity (from base)	1.53mm (0.604 in.)

Explosive Components:

Detonator	0.038 gm MDX/ Lead
	Axide/NOL 130
Lead Charge	0.285 gm HMX

Packing:

For shipping fuzes from the fuze manufacturer to the cartridge LAP facility, one packing unit consists of 1000 fuzes individually inserted into foam trays (200 fuzes per tray and 5 trays per packing unit) which are stacked with chipboard separators and then packed into inner and outer fiberboard boxes.

Length	48.26mm (19.0 in.)
Width	31.75mm (12.5 in.)
Height	25.65mm (10.1 in.)
Weight (Empty)	5.23 kg (11.5 lb)
Weight (1000 fuzes)	23.86 kg (52.5 lb)

Shipping & Storage Data:

Quantity-Distance Class/SCG	- 1.1B
Storage Code	VI
DOT shipping Class	A
DOT Designation	DETONATING FUZES CLASS A EXPLOSIVES
DODAC	To be Assigned
Drawing Number	DS8861

References:

DARCOM 700-3-2
TM 9-1300-206

By Order of the Secretary of the Army:

Official:

E. C. MEYER
General, United States Army
Chief of Staff

J. C. PENNINGTON
Major General, United States Army
The Adjutant General

Distributions:

To be distributed in accordance with DA Form 12-40, Organizational Maintenance requirements for Small Arms Ammunition.